"C. G. RAJAN'S
Astrological Tables
Of
Lagna and Other Houses (*i.e.*) Bhavas"
For
Latitudes from 0° to 36° North

(And also for Latitudes from 0° to 36° South by deduction from 0° to 36° North).

FOR USE IN MODERN TIMES

To calculate Lagna and to cast Bhavachakra in Hindu Astrology and to calculate the four cardinal cusps including the Ascendant of Western Astrology and to cast the Bhavachakra of Western Astrology according to the Ancient or Classical Method of House Division—with copious examples.

By

C. G. Rajan, B.A. (*Mathematics*)

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Preface.

There has been a demand for many years for a book of this kind of astrological tables of lagna and the bhavas or houses and this work has been undertaken specially to meet this demand. During the past few years also, there has been an increasing tendency on the part of Hindu Astrologers in particular to make astrological predictions according to the position of the planets in the Hindu type of Bhavachakra and the lack of a good and useful book giving the tables of Bhavas has been therefore very keenly felt among them. Tables of Houses have been familiar to European astrologers and there are also several kinds of such tables. In European astrology there are nearly a dozen different methods of "House Division" giving rise to a corresponding number of different tables of houses and each method of house-division has its own votaries, enthusiasts and supporters who condemn all the other methods and consequently have sprung up several Western "Tables of Houses" which differ from one another and which are being used in Western Astrology. Hindu Astrology is fundamentally quite different from Western Astrology and differs from it radically in almost all its essential elements, rules and dogmas. Unlike in European or Western Astrology, only one method of House-Division or Bhava-Division as it is also called has been adopted universally in Hindu Astrology and it has the support and approval of famous Indian Astrologers and Indian Astronomers. It is also one of the several methods of Western Astrology adverted to above and is admittedly also an ancient or classical method in Western Astrology. It is thus the only ancient and classical method common to both Western and Hindu Astrology and has therefore been adopted for the construction of the Astrological Tables of the Lagna (*i.e.* Ascendant) and other Bhavas (*i.e.* Houses) of this book. These tables have been made specially suitable for *modern times* by adopting in calculation the *modern data* such as the modern value for the Obliquity of Ecliptic, the modern value for the correction for converting geographical latitudes into

geo-centric latitudes etc. and by also employing the correct system of trigonometrical method for determining the Cusps of Houses,

It is evident from what has been said above that this book is useful to Hindu Astrologers and also to that School of European Astrologers who believe in the time-honoured method of European astrological House-Division. It is also useful to determine the Ascendant according to Hindu Astrology and according to most of all the other methods of Western House-Division as these methods tally with one another in giving the longitude of the Ascendant, and the difference in the longitude of the Ascendant given in the several Tables of Houses that are now in the market will be due to the newness or oldness of the data employed and the nature of the system of calculation resorted to in determining the cusp according to the several different methods of House-Division in Western astrology. I specially wish to bring to the notice of the reader the fact that this book has been *so designed* in its method, arrangement and presentation of necessary materials *as to make it useful* to determine the Lagna (or Ascendant) and to caste Bhavachakra of persons born mainly in India, Ceylon, Burma, Federated Malay States, Mauritius and South Africa. As this book contains also general methods of calculating Siderial Time and the Ascendant, and the cusps of the other Houses for any place in the world, it can also be used for persons born anywhere in the world.

With a view to make this book self contained, self sufficient and exhaustive, I have given the method of calculating Siderial Time for any place for any moment with the data that are available in Table 10 of this book or in any Indian Panchang or Western Nautical Almanac etc. which give the Siderial Time for a fixed moment of a day. I have given also numerous examples to show how the data about Siderial Time for various fixed moments of a day available in the various European Almanacs and Hindu Panchangs can be used to find the Siderial Time for the required place for the required moment. I did not at first propose to give in this book Table No. 10

containing the Siderial Time for intervals of ten days in general, but as I have subsequently thought that the reader may find some inconvenience or difficulty in getting at details about Siderial Time from Western Almanacs or Panchangs, I have thought it expedient to give this table No. 10. If the reader is able to get Siderial Time for every day from any Western Almanac or Indian Panchang, he is advised to prefer it as he will thereby be saved the trouble of calculating the Siderial Time by the rule of three from this book. I have furnished in this book all the details that may be necessary to do calculation without going in for other books to get the necessary details such as latitudes and longitudes of places, the difference between the Standard Times, Mean Times, and Local Times of the different places that may fall within the scope of this book.

In conclusion, I wish to take this opportunity of expressing my thanks to some of my friends who, besides giving me valuable suggestions later on, have at first put into my head the idea of producing such a book as the present one in English (and also in Tamil * which I have also accordingly done for the benefit of the astrologers who are ignorant of the English language) and I specially thank my son. Sri C. S. Maniam (*i.e.* C. Subramaniam) a student of the B. A. Honours Class who has been of immense help to me in producing tables 9 and 10 of this book. The readers are specially requested to carry out the corrections given in the Errata list before they proceed to do calculation; and I crave their indulgence also to excuse clerical errors and print mistakes in the book and also any slip of the hand in working out the several illustrative examples and to take into account only the methods for guidance in the illustrative examples even if there be any slip of the hand in them. The price of the book would have been fixed a little less had it not been for the enormous rise in the price of printing paper on account of the present war. The undersigned (C. G. Rajan whose full name is C. Govinda Rajan) ventures to place this book before the

* The name of this Tamil book is "Jathaka Lagna Sphuta Bhava Sphuta Gananam" Price Rs. 1—8—0. Postage extra.

public in the hope that the Almighty will make it useful to the practitioners in Hindu and Western Astrology.

7, Venkatesa Maistry Street,
Near Krishnappa Naick Tank,
Sowcarpet Post, Madras.
19th June 1941 A.D.

C. G. RAJAN.

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Part A.—General Instructions—Pages-1 to 56.

Part B.—Tables—Pages-1 to 112.

Errata

☞ *Important Note* :—The reader is specially requested to carry out the corrections before beginning to work out problems.

2. In counting the lines, the line giving the title of the book is excluded.

Part A—Instructions.

Page	Line	Error (*i.e.* for)	Correction (*i.e.* Read.)
16	29	Pombay ...	Bombay ...
18	28	do. carfully	do. carefully
35	1	as item No. 7A	as item No. 7A
52	9	we well	we will
53	8	longiiude or	longitude of

Between Items Nos. 7 & 8, read item No. 7 A occurring in pages 35 to 39.

Part B.—Tables.

8	8	E		E, &	
	18	Burma	+ 6-00-00	Burma	+ 6-30-00
	19		90-00-00		90-07-30
	22	Straits	+7-00-00	Straits	+ 7-00-00
	23	Settlements		Settlements	+ 7-20-00
			105-00-00		105-00-00
					110-00-00
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C. G. RAJAN'S

"Astrological Tables of Lagna and Other Houses (*i.e*) Bhavas"

For

SAYANIC AND NIRAYANIC ZODIAC
or TROPICAL & SIDERIAL ZODIAC
or WESTERN & INDIAN ZODIAC

ITEM No. 1:—This book has been specially designed as a practical guide and a hand book for astrologers and others who wish to determine sufficiently accurately for themselves the Lagna (or Ascendant) and other bhavas (or houses) for use in Indian or Western astrology. Astrology speaks of Lagna (*i.e* Birth or Udaya Lagna or Birth Ascendant) and also of Bhava Chakra (or the houses) with reference to which astrological predictions have to be made according to strict injunctions of standard or classical books on Astrology. Lagna plays a very important part in Judicial Astrology, Horary or Prasna Astrology and Muhurtha Astrology. Those who are inclined to study astrology according to its strict rules or dogmas advocate the method of calculating also the Bhavachakra and condemn the practice of blindly taking the Zodiacal signs of equal magnitude of 30° to represent Bhavas. While a Zodiacal sign is uniformly 30° long, a Bhava is of varying magnitude and becomes so short in higher latitudes that what appeared to Varahamihira a wonder or an absurdity when he said in sloka 6 of Chapter XII of his Bhrihajjataka "how can Mercury or Venus (which cannot be away from the Sun by more than about 29° or 47° respectively) be in the fourth house from the Sun" is a possibility if the fourth house referred to is taken as the fourth bhava and not the fourth Zodiacal sign of 30° each.

ITEM No. 2:—Lagna and Bhavachakra can be calculated and cast accurately and easily with the help of an astronomical time called Siderial Time and with the help of a specially designed table based on this Siderial Time. Lagna and Bhavachakra are in the Ecliptic. The Ecliptic is a great circle which is traced out on the celestial sphere by the annual path of the Sun relative to stars. The Celestial Equator is a great circle of the celestial sphere which is perpendicular to the axis passing through the North Pole and the South Pole. The Ecliptic and the Celestial Equator intersect each other at two points called the First Point of *Aries* and the First Point of Libra. The First Point of Aries is an intersecting point through which the Sun passes when going from the south of the Equator to the north of the Equator. This First Point of Aries appears to be moving daily from the east to the west just like all heavenly bodies as the result of the earth's daily rotation on its axis from the west to the east. The interval of time between any two successive passages of the First Point of Aries across the meridian of any place as the result of the earth's rotation is called a Siderial Day. This siderial day is divided into twenty four equal parts or hours and each hour is divided into sixty minutes and each minute is again divided into sixty seconds. The siderial day for a place begins when the First Point of Aries is on the meridian of that place and ends when the First Point of Aries comes to the meridian next. This Siderial day which is caused by the rotation of the earth may be also considered as the time of the Earth's rotation, on its axis. This siderial day is equal to 23 hours–56 minutes–04·091 seconds of the mean solar time or our familiar clock time. Thus it will be seen that the siderial day of 24 siderial hours is equal to 23 hours 56 minutes 04·091 seconds of mean time or our clock time. The correction that has to be made to the interval of mean time to convert it into the interval of siderial time is called the correction for Siderial Time and Table No. 4 in this book is a table giving the siderial time interval for a given mean time interval. It will be seen from what has been said above that the Siderial time is in relation to the First Point of Aries which is on the ecliptic and thus we see now that the Siderial time has something to do with the Ecliptic.

As the Lagna and the Bhavas are in the ecliptic as stated above already, we will be able to calculate Lagna and to cast Bhava chakra if we know Siderial Time.

ITEM No. 3:—In European Astronomy the longitude of a heavenly body is measured from the First Point of Aries and this longitude is called Tropical Longitude or Sayanic Longitude. The ecliptic circle is divided into twelve equal arcs of 30 degrees each from the First Point of Aries and each such arc is called a sign. The twelve signs commencing from the First Point of Aries into which the ecliptic is divided are called (1) Aries, (2) Taurus, (3) Gemini, (4) Cancer, (5) Leo,. (6) Virgo, (7) Libra, (8) Scorpio, (9) Sagittarius, (10) Capricornus, (11) Aquarius and (12) Pisces. In Hindu Astronomy the longitude of a heavenly body is reckoned not from the First Point of Aries referred to above but from a fixed point in the ecliptic. This fixed point is called the Indian Starting Point. The ecliptic is divided into twelve equal arcs of 30 degrees each from the Indian Starting Point and each such arc is called a sign. The twelve signs commencing from the Indian Starting Point into which the ecliptic is divided are called (1) Mesha, (2) Rishaba, (3) Mithuna. (4) Karkataka or Kataka, (5) Simha, (6) Kanni, (7) Thula, (8) Vrichika, (9) Dhanus, (10) Makara, (11) Kumba and (12) Mina. It will now be seen that the Indian Starting Point is the First Point of the Indian Sign called Mesha. The longitude of a heavenly body measured from the Indian Starting Point or the First Point of Mesha is called Siderial Longitude or Nirayanic Longitude. The First Point of Aries referred to above is perpetually and very slowly moving towards the west and is at the present times to the west of the Indian Starting Point. The length of the arc on the ecliptic between the First Point of Aries (*i.e.* the European Starting Point) and the First Point of Mesha (*i.e.* the Indian Starting Point) is called Ayanamsa. As the First Point of Aries is perpetually moving, Ayanamsa also is perpetually changing. The First Point of Aries is also called an Equinoctial point or simply an Equinox. The phenomenon by which the First Point of Aries is moving is called the Precession of the Equinoxes and the annual rate by which the First Point of Aries

moves is called the Annual Rate of the Precession of the Equinoxes. The rate of Precession at the present times is 50·26 seconds of arc per annum. It will be seen from what has been said above that Ayanamsa is a connecting link between the Tropical longitude and the Siderial longitude and if we know any one of these two longitudes and the Ayanamsa, the other longitude can be easily got. In other words if we calculate the tropical longitude of a Lagna or a Bhava, we can deduce the Siderial longitude of the Lagna or the Bhava. The tables in this book are intended to enable first the calculation of the Tropical longitudes of the Lagna and the several Bhavas required for the European Astrology and then the Indian Siderial longitudes of the Lagna and the several bhavas required for Hindu Astrology. The beginning of a European Bhava is called the Cusp of a house. The beginning of the European First Bhava is called the Ascendant and this point is called Lagna or Udaya Lagna in Indian Astrology and is the middle point of the Indian First Bhava. The beginning points of the Several European Bhavas or Houses (as Bhavas are called Houses) from the Ascendant are the mid points of the several Indian Bhavas from the Lagna. This relationship will enable us to calculate the mid-points of the several Indian Bhavas or to erect the Indian Bhavachakra if we know the longitudes of the several cusps. Table No. 9 in this book gives the tropical longitudes of the several cusps of European Bhavas or the mid-points of the several Indian Bhavas and so this book can be used both for European (*i.e.* Sayanic) and Indian (*i.e.* Nirayanic) Astrology.

ITEM No. 4:—So far, I have introduced the reader to the several terms used in Astrology and astronomy and to the scope of this book of tables. We shall now directly plunge into calculation. The siderial time at the moment for which we wish to calculate Lagna or to cast Bhavachakra has first to be determined.

So far as this book is concerned, we have to deal with three kinds of time. They are (1) Siderial Time, (2) Mean Solar Time or briefly Mean Time and (3) Standard Time. Siderial time is indicated by a specially made clock called siderial clock. Mean time and standard time are indicated by ordinary clocks according

as they are set to mean time of a place M, or the standard time fixed for a country. The mean time of a place P is also called the Local Mean Time of that place P.

The local mean times of different places differ from each other. The standard time is the local meantime of a particular place S which is selected as a standard for a country and is used in the particular place S and in all the other places in the country which have accepted this standard time. The local mean time of an important presidencial or provincial town M was generally being or is also generally being used in and around that town. So, before proceeding with calculation, we have to find out whether the time furnished to us for calculation is (1) the mean time of the place M or (2) the standard time *i.e.* the mean time of the place S to make the calculation for the required place P. Sometimes the places P and M or P and S may happen to be the same place.

ITEM No. 5:—Definitions.

DEFINITION No. 1:—The phrase "Required Place" wherever it is used in this book means the place for which the siderial time has to be calculated.

DEFINITION No. 2; The phrase" "Required Moment" wherever it is used in this book means the "clock time" for which the Siderial Time has to be calculated. The "clock time" means (1) the clock time when meantime of the place M is used or (2) the standard clock time which is the mean time of the place S when standard time is used.

DEFINITION No. 3: The "Required Siderial Time" wherever it is used in this book means the Siderial Time which has to be calculated for the "required place" for the "required moment."

DEFINITION No. 4: "Given Moment" is used also as another name for "Required Moment."

ITEM No. 6:—The process of calculating Siderial Time for any required moment for any required place P has to be guided by the following rules :—

RULE No. 1 :—First find out the Local Mean Time of the required place P from the required moment :—

(*a*) If the required moment is expressed in terms of the clock (or watch or time-piece) set to the Local Mean Time of the place M, use the place P and M, †

(*b*) If the required moment is expressed in terms of the clock (or watch or time-piece) set to the Standard Time *i.e.* the Local Mean Time of the place S, use the places P and S. †

N.B. The place S used in this book is the place S mentioned in column 3 of Table No. 6 for some important countries.

(*c*) 1. Apply the "Local Correction" D from table No. 5 to the difference in longitude between the longitudes of M and P if M and P are used.

2. Apply the Local Correction from table No. 5 to the difference in longitude between the longitudes of S and P if S and P are used.

3. The local correction D has to be added to the required moment if P is to the east of M or S. The local correction has to be subtracted from the required moment if P is to the west of M or S. If we do this, we will get the Local Mean Time of P for the required moment.

4. P will be to the east of M when the eastern longitude of P is greater than that of M and P will be to the west of M, when the eastern longitude of P is less than that of M. Similarly P will be to the east of S when the eastern longitude of P is greater than that of S and P will be to the west of S when the eastern longitude of P is less than that of S. This rule No. c (4) is correct when P has an eastern longitude *i.e.* when P is to the

† P and M or P and S may sometimes coincide. For instance P and M may coincide when the required place P is Madras and when the required moment is given in terms of Madras Local Mean Time.

east of Greenwich from which geographical longitudes of places on the surface of the earth are reckoned. If P has a western longitude, *i.e.* when P is to the west of Greenwich this rule has to be exactly reversed.

RULE No. 2 :—(*a*) Then find out from Table No. 1, the Interval of Mean Time M. I. (*i.e.* clock time) between the Local Mean Noon and the "Local Mean Time of P for the required moment" as calculated in rule (1) (c) (3) if the Siderial Time available in an Ephemeris or Almanac or Panchang is given for Mean Noon.

(*b*) Find out from table No. 2, the Interval of Mean Time M. I. (*i.e.*, clock time) between the Local Mean Midnight and the "Local Mean Time of P, for the required moment" as calculated in rule (1) (c) (3) if the Siderial Time available in an Ephemeris or Almanac or Panchang is given for Mean Midnight.

RULE No. 3 :—Then find from table No. 4 the Interval of Siderial Time (S. I.) for the Interval of Mean Time calculated in rule (2) (*a*) or (2) (*b*).

RULE No. 4 (*a*) :—Now note in a sheet of paper the Siderial Time available in an Ephemeris or Almanac or Panchang for the Mean Time or Standard Time Noon immediately preceding the required moment if the Ephemeris or Almanac or Panchang gives the Siderial Time for every Mean Time Noon or Standard Time Noon

(*b*) Note in a sheet of paper the Siderial Time available in an Ephemeris or Almanac or Panchang for the Mean Time Mid-night or Standard Time Midnight immediately preceding the required moment, if the Ephemeris or Almanac or Panchang gives the Siderial Time for every Mean Time Mid-night or Standard Time Mid-night. Let the Siderial Time be denoted by S. T.

RULE No. 5: —Then add S. T. [found from rule (4) (*a*) or (4) (*b*)] and S. I. [found from rule 3]. Let the total of S. T. and S. I. (*i.e.* S. T. + S. I.) be K.

RULE No. 6 :—(*a*) Then find from table No. 3 the Longitude Correction (L.C) for the difference in longitude between the place P

and the place G for whose Mean Time Noon or Mean Time Midnight the Siderial Time available in an Ephemeris or Almanac or Panchang is given.

RULE No. 6 :—(*b*) Find from table No. 3 the Longitude Correction (L.C) for the difference in longitude between the place P and the place S if the Siderial time available in Ephemeris or Almanac or Panchang is given for S for Standard Time Noon or Standard Time Midnight.

NOTE; The place S mentioned in this rule is the place S mentioned in column 3 in table No .6.

(*c*) This correction L. C. has to be added to K if the place P is to the west of G or S or to be subtracted from K if the place P is to the east of G or S. (In other words this correction L. C. is positive or negative according as P is to the west or east of G or S) If we do this, we get a total which is H for the required moment

Note :—(1) To say that a positive quantity L. C. is added to K and (2) to say that a negative quantity *i.e.*—L. C. is "algebraically added," are both one and the same. The second manner of expression "algebraically adding" is generally used in scientific works to secure the uniform use of the word "adding" for both addition and subtraction instead of using "adding" for addition" and "subtracting" for subtraction.

RULE No. 7:—(*a*) If H is less than 24 hours, H is the required Siderial Time for the required moment for the required place P.

(*b*) If H is greater than 24 hours, then H minus 24 hours is the required Siderial Time for the required moment for the required place P.

ITEM No. 7:—Calculation of the Siderial Time H at the Required Moment for the Required Place P :—

Clocks are used largely even in small villages at modern times not to speak of towns and cities and human affairs are regulated by ordinary clock times. Clocks show mean times in some places

and in other places they show standard times. In one and the same place some clocks show mean time while other clocks show standard time. There is thus some confusion as regards the times that are being used and an astrologer has to be specially careful to know what kind of time is the time that is furnished to him by the person who consults him. The astrologer who is not familiar with the kind of time that is used in the town or Presidency or Povince to which the place of birth etc belongs is often in difficulty as regards the exact nature of time and is therefore likely to commit mistakes. So every person who wants to consult an astrologer or to practise astrology himself must be very careful to know the correct kind of time. My enquiry shows that a Standard Time has for the first time been adopted from 12 Noon on 1-7-1906 A. D. for India and Ceylon and that since then, the whole of India (except Calcutta and Portuguese India) and Ceylon have been using the Indian Standard Time and that Calcutta and Portuguese India have been using both Standard Time and Mean Time or Mean Time or Standard Time in some of the subsequent years. In years prior to the above date local mean times were being used in important towns and Presidency towns and these times were also being used in places adjacent to these towns and presidency towns and in the Railways of the provinces and presidencies. So far as the Madras Presidency is concerned, mean time of the Presidencial town of Madras was being used in all the places of the Madras Presidency before Noon on 1-7-1906 A. D. For other places the reader has to find for himself the town or place (say M.) the mean time of which was or is being used in the place P for which (place) Lagna and Bhavas have to be calculated.

SECTION I :—

ITEM No. 8:—*To calculate Siderial Time for any required moment when the required moment is given in Mean Time*

I shall now show the method of calculating the Siderial Time for a required moment expressed in Mean Time:—

Example No. 1 :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1-1-1901 A. D. is given as 18 hours

41 minutes 46·05 seconds. Find the Siderial Time at Madras at 10 hours 56 minutes 57 seconds P. M. Madras Mean Time on 1-1-1901 A. D. The longitude of Madras is 80° 14' 47"·10.

S. T. is used to denote Siderial Time.

N. B. Rough working is given below separately.

		Hrs. ms. sds.
S. T. at Mean Noon of Greenwich on 1-1-1901 A. D.	=	18-41-46·05 (1)
Siderial interval S. I. for 10 hr. 56 m. 57 sds. P. M. (see rough working)	=	10-58-44·920(2)
Adding (1) and (2) we have K.	=	29-40 30·970(3)
Longitude Correction L. C. for difference in longitude between Greenwich and Madras (see rough working)	=(—)0-00-52·732(4)	
Adding algebraically* (3) and (4) we have H.	=	29-39-38·238(5)
Subtracting 24 hrs. as 29 hrs. is greater than 24 hrs.	=	5-39-38·238(6)

∴ The Siderial Time at 10 hrs. 56 m. 57 sds. P. M. at Madras on 1-1-1901 A. D. is 5 hrs. 39 ms. 38·238 sds.=5 hrs. 39 m. 38 sds. Answer.

N. B.—* Adding algebraically one quantity n (positive or negative) to another quantity m means (1) when n is positive, the quantity n must be added to the quantity m, (2) when n is negative, the quantity n must be subtracted from the quantity m.

ROUGH-WORK.

Example No. (1):—

The local correction D is zero as P and M here coincide

ROUGH WORK for No. 2 :—To find M. I. :— From Rule (2) and Table No. (1) the interval of time M. I. between mean noon and 10 hrs. 56 m. 57 sds. P. M. is 10 hrs. 56 m. 57 sds.

From rule (3) and Table No. 4, the Siderial interval S. I. for 10 hrs. 56 m. 57 sds. is found as follows:—

	Hrs. ms. sds.		Hrs. ms. sds.
For	10– 0– 0, S. I.	=	10–01–38·565
„	0–56– 0 „	=	0–56–09·199
„	0– 0–57 „	=	0–00–57·156
Adding for	10–56–57, S. I.	=	10–58–44·920

ROUGH WORK for No. 4:—To find L. C. From Rule 6(*a*) and Table No. 3.

	° ′ ″		H. ms. sds.
For	80– 0– 0 L. C.	=	0–0–52·570
„	0–10– 0 „	=	0–0–00·110
„	0– 4– 0 „	=	0–0–00·044
„	0– 0–40 „	=	0–0–00·007
„	0– 0–07 „	=	0 0 00·001
Adding for	80–14–47 L. C.	=	0–0–52·732

Example (2) :—The Siderial Time at Greenwich at the Mean Midnight of Greenwich on 1-1-1901 A. D. is given as 18 hrs. 43 ms. 44·33 seconds. Find the Siderial Time at Madras at 4 hrs. 3 m. 15 sds. P. M. Madras. Mean Time on 1-1-1901 A. D. The longitude of Madras is 80°–14′–47 ·10

	Hrs. ms. sds.	
S. T. at Mean Midnight of Greenwich on 1-1-1901 A. D.	=	18 43-44·33 (1)
Siderial interval S. I. for 4 hrs. 3 m. 15 sds. P. M. (See Rough Working)	=	16–05–53·238 (2)
Adding (1) and (2) we have K	=	34·49–37·568 (3)
Longitude Correction L. C. for difference in longitude between Greenwich and Madras (See Rough Working)	=	(—10-00–52·732 (4)
Adding algebraically (3) and 4) we have H.	=	34–48–44·836
Subtracting 24 hrs. we have	=	10–48–44·836 (6)

∴ The Siderial Time at 4 hrs. 3 m. 15 sds. P. M. at Madras on 1-1-1901 A. D. is 10 hrs. 48 m. 44·836 seconds = 10 hrs. 48 m. 45 sds. Answer.

ROUGH-WORK.

Example No. 2 :—The local correction D is zero as P and M here coincide. From Rule (2. (*b*) and Table No. (2) the interval

of time M. I. between mean midnight and 4 hrs. 3 m. 15 sds. P.M.=16 hrs. 3 m. 15 sds.

From rule (3) and Table No. 4 the siderial interval S. I. for 16 hrs. 3 m. 15 sds. is found as follows :—

	Hrs. m. sds.	=	Hrs. m. sds.
For	16-0- 0	S. I. =	16-02-37·704
„	0-3- 0	„ =	0-03-00·493
„	0-0-15	„ =	0-00-15·041
Adding for	16-3-15	S. I. =	16-05-53·238

From Rule (*b*) (1) and Table No. 3 the longitude correction L. C. for difference in longitude is 0-00-52·732 as worked out in example No. 1.

Example (3) :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1-1-1901 A. D. is given as 18 hrs. 41 ms. 46·05 seconds. Find the Siderial Time at Kodaikanal at 10 hrs. 56 ms. 57 sds. P. M. Mean Time (*i.e.*, Madras Mean Time) on 1-1-1901 A. D. The longitude of Kodaikanal is 77°-28'-0"E.

Here the time of 10 hrs. 56 m. 57 sds. P. M. Madras mean time is the time indicated at the required place (P) Kodaikanal by a clock which is set to Madras mean time (*i.e.* the mean time of place M) and not by a clock in Kodaikanal which is set to the local or Kodaikanal mean time. So we have to find from rule (1) (*a*) the Kodaikanal mean time corresponding to the Madras Mean Time at Kodaikanal. To do this we have to apply the correction D from the table No. 5 for the difference in longitudes between M. and P *i.e.* between Madras and Kodaikanal. The difference between Madras longitude of 80°-14'-47·10" E and Kodaikanal longitude of 77°-28-0' is 2°-46'-47''·10. The correction for this 2°-46'-47''·10 from table No. 5 is 0 hr. 11 ms. 07 sds. as shown in the rough-working. This correction has to be subtracted according to rule (*c*) (3) from 10 hrs. 56 ms. 57 sds. P. M. as Kodaikanal is to the west of Madras. Effecting the subtraction we get *10 hrs. 45 ms. 50 sds. P. M. as the local mean time at Kodaikanal.* Then we have to proceed exactly as in Example (1) substituting Kodaikanal for Madras wherever Madras occurs.

		Hrs. ms. sds.
S. T. at Mean Noon of Greenwich on 1-1-1901 A. D.	=	18–41–46·05 (1)
Sidereal interval S. I. for 10 hrs. 45 ms. 50 sds. P. M. (see rough working)	=	10–47–36·094(2)
Adding (1) and (2) we have K.	=	29–29–22·144(3)
Longitude Correction L. C. for difference in longitude between Greenwich and Kodaikanal which is 77°-28′-0″	=(−)0–00–50·908(4)	
Adding algebraically (3) & (4) we have H.	=	29–28–31·236(5)
Subtracting 24 hours we have	=	5–28–31·236(6)

∴ The Sidereal Time at Kodaikanal at 10 hrs. 56 ms. 57 sds, P. M. of Madras Mean Time (*i.e.* 10 hrs. 45 ms. 50 sds P. M. of Kodaikanal mean time) is 5hrs. 28 ms. 31·236sds. or 5 hrs. 28 ms. 31sds. Answer.

ROUGH-WORK.

From Table No. 5 the correction D for 2°–46′–47″·10 is as follows :—

	° ′ ″	Hrs. ms. sds.
For	2– 0– 0 D =	0–08–00
„	0–46– 0 „ =	0–03–04
„	0–00–47 „ =	0–00–03·133
Adding For	2–46–47, D =	0–11–07·133
	D =	0–11–07 sds.

From Rule (2) (*a*) and Table No. (1) the interval of time between mean Noon and 10 hrs. 45 ms. 50 sds P. M. = 10 hrs. 45 ms. 50 sds.

S. I. (From rule (3) and Table No. 4) is as follows—

	Hrs. ms. sds.		Hrs. ms. sds.
For	10– 0– 0 S. I.	=	10–01–38·565
„	0–45– 0 „	=	0–45–07·392
„	0–00–50 „	=	0–00–50·137
Adding for	10–45–50, S. I.	=	10–47–36·094 (2)

From Rule (6) (*a*) and Table No. (3)

	° ′ ″		Hrs. ms. sds.
For	70– 0–0	L. C. =	0–00–46·00
„	7–00–0	„ =	0–00–04·60
„	0–20–0	„ =	0–00–00·220
„	0–08–0	„ =	0–00–00·088
Adding for	77–28–0,	L. C. =	0–00–50·908 (4)

Example 4:—If the mean time at Greenwich Mid-night is given as in Example No. (2), we have to follow rule No. (2) (*b*) to find M. I. and proceed as in Example No. (3).

Example 5:—The Siderial Time at Madras at the Mean Noon of Madras on 1-1-1901 A. D. is given as 18 hrs. 40 ms. 53·318 sds. Find the Siderial Time at Madras at 10 hrs. 56 ms. 57 sds. P. M. Madras mean time on 1-1-1901 A. D. The longitude of Madras is 80° 14′ 47″·10 E.

In this problem P and G mentioned in rule (6) (*a*) are one and the same place namely Madras as the Siderial Time is given for Madras.

The longitudinal correction L. C. given in table No. 3 therefore becomes zero as per rule (5) (*a*).

	Hrs. ms. sds	
S. T at Mean noon of Madras on 1-1-1901 A. D.	=18–40–53·318 —	(1)
Siderial interval S. I. for 10hrs. 56 ms. 57 sds. P. M. (see rough-work)	=10–58–44·920	(2)
Adding (1)and (2) we have K.	=29–39–38·238	(3)
Longitude Correction L. C.	=0–00–00·000	(4)
Adding (3)and (4) algebraically H	=29–39–38·238	(5)
Subtracting 24 hrs. we have	=5–39–39·238	(6)

∴ The Siderial Time at 10 hrs. 56 ms. 57 sds. P. M. at Madras on 1-1-1901 A. D. is 5 hrs. 39 ms. 38·238sds. or 5 hrs. 39 ms. 38 sds: Answer.

ROUGH-WORK.

To get Siderial interval S. I. for 10 hrs. 56 ms. 57 sds. P. M see the rough-work for Example No. 1 and rule 3.

Example (6) :—The Siderial Time at Madras at Madras Mean Noon on 1-1-1901 A. D. is given as 18 hrs. 40 ms. 53·318 sds. Find the Siderial Time at Kodaikanal at 10 hrs. 56 ms. 57 sds. P. M. mean time (*i.e.* Madras mean time) on 1-1-1901 A. D. The longitude of Kodaikanal is 77°–28'–0 E.

Here it will be seen from Example (3) that 10 hrs. 56 ms. 57 sds. P. M. Madras Mean time corresponds to 10 hrs. 45 ms 50 sds. P. M. Kodaikanal mean time.

	Hrs. ms. sds.	
S. T. at Mean Noon of Madras on 1–1–1901 A. D. is	=18–40–53·318	(1)
Siderial interval S. I. for 10 hrs. 45 ms. 50 sds. P. M. (see rough-work for example No. 3.	=10–47–36.094	(2)
Adding (1) and (2) we have K	=29–28–29.412	(3)
Longitude Correction L. C. from Table No.3 for difference in longitude between Madras and Kodaikanal(see rough-work)	=+ 0–00–01·824	(4)
Adding algebraically (3) and (4) we have H	=29–28–31·236	(5)
Subtractind 24 hrs.we have	= 5–28–31·236	(6)

∴ So the Siderial Time at Kodaikanal at 10 hrs. 56 ms. 57 sds. P. M Madras Mean Time on 1–1–1901 A. D. is 5 hrs. 28 ms. 31.236 sds. or 5 hrs. 28 ms. 31sds. Answer.

ROUGH-WORK.

From rule 6 (a) and Table No 3.

Here P is Kodaikanal and Madras is G of rule (3) (a)

	° ′ ″
Longitude of Madras	=80–14–47·10
Longitude of Kodaikanal	=77–28–00.00
Difference	= 2–46–47·10

	° ′ ″		Hrs. ms. sds.
For	2– 0– 0,	L. C. =	0–00–01·31
„	0–40– 0,	„ =	0–00–00·440
„	0–06– 0,	„ =	0–00–00·066
„	0–00–40,	„ =	0–00–00·007
„	0–00–07,	„ =	0–00–00·001
Adding for	2–46–47	L. C. =	0–00–01.824

Example (7) :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1–1–1901 A. D. is given as 18 hrs. 41 ms.46.05 second. Find the Siderial Time at Bombay at 10hrs. 56 ms. 57 sds. P. M. Bombay Mean Time on 1–1–1901 A. D The longitude of Bombay is 72°–48′–54″ E.

		Hrs. ms. sds.	
S. T. at Mean Noon of Greenwich on 1–1–1901 A. D.	=	18–41–46.05	(1)
Siderial interval S. I. for 10 hrs. 56 ms. 57 sds. P. M. Bombay Mean Time (see rough-work)	=	10–58–44·920	(2)
Adding (1) and (2) we have K	=	29–40–30.970	(3)
Longitude Correction L.C. for difference in longitude between Greenwich and Bombay (see rough-work)	=(−)	0–00–47.848	(4)
Adding algebraically (3) and (4) H	=	29–39–43·122	(5)
Subtracting 24hrs .we have	=	5–39–43·122	(6)

The Siderial Time at 10 hrs. 56 ms. 57 sds. P. M. Bombay Mean Time at Bombay on 1–1–1901 A. D. is 5 hrs. 39 ms. 43·122 sds. or 5 hrs. 39 ms. 43 sds Answer.

ROUGH–WORK.

Here P is Bombay, M is Bombay. As P and M coincide, D of rule (1) (c) (1) is zero

To find M. I.:—10hrs. 56 ms. 57 sds. P. M Bombay Mean Time at Bombay =10 hrs. 56 ms. 57 sds, from Bombay Mean Noon from Table No. 1 and rule (2) (a).

From Rule (3) and Table No. 4 the Siderial interval S. I. for 10 hrs. 56 ms. 57 sds. is 10 hrs. 58 ms. 44.920 sds. as worked out for Example No. (1).

Longitude Correction L. C. :—

From Rule (6) (a) and Table No. 3, P=Bombay and G = Greenwich.

			Hrs. ms. sds.
For	70–00–00	L C	= 0–00–46.000
„	2–00–00	„	= 0–00–01·310
„	0–40–00	„	= 0–00–00·440
„	0–08–00	„	= 0–00–00·088
„	0–00–50	„	= 0–00–00·009
„	0–00–04	„	= 0–00–00·001
Adding for	72–48–54	L. C.	= 0–00–47·848

Example (8) :—To calculate the Siderial Time for any Place P in the Bombay Presidency for the required moment of Bombay Mean Time in that place P, proceed as for Kodaikanal using the place P instead of Kodaikanal and Bombay instead of Madras in Example No. 6 *i.e* In rule (1) and (6) (a), P stands for the place and M Stands for Bombay.

Example (9) :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1–1–1901 A. D. is given as 18 hrs. 41 ms. 46.05 seconds. Find the Siderial Time at Calcutta at 10hrs. 56 ms. 57 sds. P. M. Calcutta Mean Time on 1–1–1901 A. D. The longitude of Calcutta is 88°–24′ E.

	Hrs. ms. sds.	
S T at Mean Noon of Greenwich on 1–1–1901 A. D.	= 18–41–46·05	(1)
Siderial interval S. I. for 10 hrs. 56ms. 57 sds. P. M. Calcutta Mean Time (see rough-work)	= 10–58–44·920	(2)
Adding (1) and (2) we have K	= 29–40–30.970	(3)
Longitude Correction L.C. for difference in longitude between Greenwich and Calcutta (see rough-work)	=(−) 0–00–58.094	(4)
Adding algebraically (3) and (4), H	= 29–39–32·876	(5)
Subtracting 24 hrs. we have	= 5–39–32·876	(6)

∴ The Siderial Time at 10 hrs. 56 ms. 57 sds. P. M. Calcutta Mean Time on 1–1–1901 A. D. is 5 hrs. 39 ms. 32.876 sds. or 5 hrs. 39 ms. 33 sds. Answer.

ROUGH-WORK.

Here P = Calcutta and M = Calcutta. So P and M coincide. So D of rule (1) (c) (1) is zero.

To find M. I. :— 10 hrs. 56 ms. 57 sds. P. M. Calcutta Mean Time at Calcutta = 10 hrs. 56 ms. 57 sds. from Calcutta Mean Noon from Table No. (1)

From Rule (3) and Table No. (4) the Siderial interval S.I. for 10 hrs. 56 ms. 57 sds. is 10 hrs. 58 ms. 44.920 sds. as worked out for Example No. 1.

From Rule (6) (*a*) and Table No. (3) L. C. is:—

	° ′ ″		Hrs. ms. sds.
For	80– 0–0	L. C. =	0–00–52·57
„	8–00–0	„ =	0–00–05·26
„	0–20–0	„ =	0–00–00·220
„	0–04–0	„ =	0–00–00·044
Adding for	88–24–0,	L. C. =	0–00–58·094

Example (10) To calculate the Siderial Time for any place P in the Bengal Province (in which Calcutta is) for the required moment of Calcutta Mean Time in that place P, proceed as for Kodaikanal using the place P for Kodaikanal and Calcutta for Madras *i.e.* using P for Kodaikanal and M for Calcutta in the Example No. (6).

Similarly for any required place in any province in India we can calculate the Siderial Time for a required moment. All that we must do carfully is to find accurately the interval of mean time *i.e* M. I. of rule (2) that has elapsed between the Mean Noon of the required place and the required moment expressed in Mean Clock Time set to that required place.

FOR ANY PLACE OUT SIDE INDIA such as Ceylon, Burma ,Federated Malay States, Mauritius, and South Africa etc:— The methods given above may be used for any place outside India if the clock time followed is Mean Clock Time of that place P or of any important or provincial town corresponding to M to whose mean Noon the Clock is set.

Example (11):—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1-1-1901 A. D. is given as 18 hrs. 41 ms. 46·05 sds. Find the Siderial Time at Jaffna at 10 hrs. 56 ms. 57 sds. P. M. Madras mean time on 1-1-1901 A. D. The longitude of Jaffna is 80° 00′ E

N. B:— The problem is similar to that of Kodaikanal i.e. Similar to Example No. 6 i.e. we have to substitude Jaffna for Kodaikanal

	Hrs. ms. sds	
S. T at Mean Noon of Greenwich on 1-1-1901 A. D.	=18–41–46·05	(1)
Siderial interval S. I. for 10hrs. 55 ms. 58 sds. P. M. Jaffna Mean Time (see rough-work)	=10–57–45·759	(2)
Adding (1)and (2) we have K.	=29–39–31·809	(3)
Longitude Correction L.C.for difference in longitude between Greenwich and Jaffna which is 80°–00′ E	=(−)0–00–52·57	(4)
Adding algebraically (3) and (4) we have H	=29–38–39·239	(5)
Subtracting 24 hrs. we have	=5–38–39·239	(6)

∴ The Siderial Time at Jaffna at 10 hrs. 56 ms. 57 sds. P. M. Madras Mean Time on 1-1-1901 A. D. is 5 hrs. 38 ms. 39·239 sds. or 5 hrs. 38 ms. 39 sds. Answer.

ROUGH–WORK.

Here P = Jaffna and M = Madras.

	° ′ ″
Longitude of Madras	=80–14–47″·10E
Longitude of Jaffna	=80–00–00 E
Difference	= 0–14–47·10

From Table No. 5 the correction D_1 for 0°–14′–47″·10 is as follows :—

	° ′ ″	Hrs. ms. sds.
For	0–14– 0 D =	0–00–56.0
„	0–00–47 „ =	0–00–03·133
Adding For	0–14–47, D=	0–00–59·133
	D=	0–00–59 sds.

We have to subtract 0–00–59 sds. from 10 hrs. 56 ms. 57 sds. to get Jaffna Mean Time as Jaffna is to the west of Madras. Subtracting thus we get 10 hrs. 55ms. 58 sds· P. M. as the local Mean Time at Jaffna. M. L.=10hrs. 55 ms. 58sds. from rule (2)(a)

From Rule (3) and Table No. 4, S. I. =

	Hrs. ms. sds.		Hrs. ms. sds.
For	10–00–00 S. I. =		10–01–38·565
„	0 –55–00 „ =		0–55–09·035
„	0 –00–58 „ =		0–00–58·159
Adding for	10–55–58, S. I. =		10–57–45·759

From rule (6) (a) and Table No. 3, L. C.=

	Hrs. m. sds.		Hrs. m. sds.
For	80–0–0 L. C· =		0–00–52·57

SECTION II :—

ITEM No. 9:—*To calculate Siderial Time for any required moment when the required moment is given in Standard Time*:—

In India and Ceylon a time called Indian (or Madras)Standard Time was introduced for the first time from 12 Noon on 1–7–1906 A. D. This time is used in all places in India and Ceylon exept Calcutta and Portuguese India. This time is indicated by a clock called Standard Time clock. The Noon represented by this Standard Time clock is called Standard Noon. The difference between the Greenwich Mean Time and this Madras Standard Time

is 5 Hours, 30 minutes. The difference between this Madras Standard Time and Madras mean Time is plus nine minutes and one second *i.e.* the Madras Standard Time is nine minutes and one second in advance of Madras Mean Time. This Standard time corresponds to the local Mean time of a place S (mentioned in Table No. 6) whose longitude in 82°-30′ E and which is to the east of Madras. Standard Times have been in use in several countires such as Burma, Mauritius, Straits Settlements etc, even from before 1-7-1906 A. D. There are Standard times now for Calcutta and Portuguese India. Table No. 6 gives the difference between the Standard Time of some country or town and Greenwich Mean Time, the sign plus being prefixed for places to the east of Greenwich and the sign minus being prefixed for places to the west of Greenwich. The longitude of the place S, to whose Mean Time, the Time Difference T. D. corresponds is given in column 3 of table No. 6. If the clock time given for a place P is a Standard Time, the local Mean Time of the place P can be easily got by applying the correction D from table No. 5 to the difference between the longitude of the place S and the longitude of the place P. If the place P is to the east of S (*i.e.* if the longitude of P is greater than that of S) the correction has to be added to the Standard Time. If the place P is to the west of S (*i.e.* if the longitude of P is less then that of S) the correction has to be subtracted from the Standard Time. If we do this, we will get the local Mean Time of P, when P has an eastern longitude or is to the east of Greenwich, see rule (1) (c) (4).

When once we get the local Mean Time from the given Standard Time, our difficulty is over and we can easily calculate the Siderial Time for the required place for the required moment in Madras Standard Time by following the examples given in Section 1 and by following the rules given already in item No. 6.

Example No. 12 :—The Siderial Time at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hours 58 ms. 24·84 seconds. Find the Siderial Time at Madras at 4 hours 3 ms. 30 seconds P. M. Madras (*i.e.* Indian) Standard Time on 7-5-1930 A. D. The longitude of Madras is 80° 14′ 47″·10. E

First we have to find the local Mean Time at Madras or Madras Mean Time corresponding to 4 hrs. 3 ms. 30 sds. P. M. Standard Time. The longitude of the place S corresponding to Madras Standard Time is 82°–30′–00″ E. as given in table No. 6. The longitude of Madras is 80°-14′-47″·10E. So the difference in longitudes is 2°-15′-12″·90 or 2°-15′-13″ nearly. The correction D for 2°-15′-13″ from table No. 5 is 0 hrs. 9 ms. 1 sd. of time (see rough work). As Madras is to the west of S, we have to subtract 0 hrs. 9 ms. 1 sd. from 4 hrs. 3 ms. 30 sds. to get Madras Mean Time. If we do so, we get 3 hrs. 54. ms. 29 sds. P. M. Madras Mean Time. Now we have to find the Siderial Time for 3hrs. 54ms. 29sds. P.M. of Madras Mean Time as follows (as in example No. 1).

		Hrs. ms. sds.	
S. T. at Mean Noon of Greenwich on 7–5–1930 A. D.	=	2–58–24·84	(1)
Siderial interval S. I. for 3 hrs. 54 ms. 9 sds. P. M. Madras Mean Time (see rough-work)	=	3–55–07.519	(2)
Adding (1) and (2) we have K	=	6–53–32·359	(3)
Longitude Correction L. C. for difference in longitude between Greenwich and Madras (see exampel No. 1)	=(−)0–00–52·732		(4)

Adding algebraically (3) and (4) we have H=6–52–39·627 (5)

∴ the Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Madras Standard Time at Madras on 7–5–1930 A. D. is 6 hrs. 52 ms. 39.627 sds. or 6 hrs. 52 ms. 40 sds. Answer.

ROUGH-WORK.

To find D. From Rule 1 (c) (2)

	° ′ ″
Longitude of S	= 82-30-00 E
Longitude of Madras	= 80-14-47·10E
Difference	= 2-15-12.90
	= 2-15-13

	° ′ ″		Hrs. ms. sds.
For	2– 0– 0,	D. =	0–08–00
„	0–15– 0,	„ =	0–01–00
„	0–00–13,	„ =	0–00– 0·867
Adding for	2–15–13	D. =	0–90–00.867
		D. =	0–09–01 nearly.

From rule (3) and Table No. 4, S. I.

	Hrs. ms. sds.		Hrs. ms. sds.
For	3–00–00, S. I.	=	3–00–29·569
„	0–54–00	„ =	0–54–08·871
„	0–00–29	„ =	0–00–29·079
Adding for	3–54–29, S. I.	=	3–55–07·519

To calculate Longitudinal correction L.C for Madras see rough work for example No. 1. To find L. C, see example No. 1.

Example 13 :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hrs. 58 ms. 24.84 seconds. Find the Siderial Time at Kodaikanal at 4 hrs. 3 ms. 30 sds. P. M. Madras (*i.e.* Indian) Standard Time on 7-5-1930 A. D. The longitude of Kodaikanal is 77°–28′ E.

We have proceed as in example No. 12.

	Hrs. ms. sds.	
Local Mean Time at Kodaikanal is (see rough work	=	3–43–22 P. M.
Interval of mean time M. I. For 3 hrs. 43 ms. 22 sds. P. M. From rule (2) (a) and Table No. 1. is	=	3–43–22
Now		
S. T. at Mean Noon of Greenwich on 7-5-1930 A. D.	=	2–58–24·84 (1)
Siderial interval S. I. for 3 hrs. 43 ms. 22 sds. (See Rough Work)	=	3–43–58·693 (2)
Adding (1) and (2) we have K	=	6–42–23·533 (3)

Longitude Correction L. C. for difference in longitude between Greenwich and Kodaikanal is (See Rough Work) } =(−)0–00–50·908 (4)

Adding algebraically (3) and (4) we have H. = 6–41–32·625 (5)

∴ The Siderial Time at 4 hrs. 3 m. 30 sds. P. M. Madras Standard Time at Kodaikanal is 6 hrs. 41 ms. 32·625 sds. or 6 hrs. 41 ms. 33 sds. Answer.

ROUGH–WORK.

To Find D from rule (1) (c) (2)

		° ′ ″	
Longitude of S.	=	82-30-00 E	(1)
Longitude of Kodaikanal	=	77-28-00 E	(2)
Difference between (1) and (2)	=	5-02-00	(3)

To Find Local Mean Time from table 5 and rule. (1)

° ′ ″		H. ms. sds.
„ 5–00–00,	„ =	0–20–00
„ 0–02–00,	„ =	0–00–08
5–02–00,	D =	0–20–08 (4)

∴ So Local Mean Time is got by subtracting 0 hrs. 20 ms. 08 sds. from 4 hrs. 3 ms. 30 sds. as Kodaikanal is west of S.

Madras Standard Time =4 hrs. 3 ms. 30 sds P. M,
Local Correction =0 hrs. 20 ms. 08 sds.
∴ Local Mean Time at Kodaikanal =3 hrs. 43 ms. 22 sds. P. M.

To Find Siderial Interval S. I. from rule 3 and Table No. 4 for 3 hrs. 43 ms. 22 sds.

Hrs. ms. sds		Hrs. ms. sds,
3–00–00	=	3–00–29.569
0–43–00	=	0–43–07.064
0–00–22	=	0–00–22.060
3–43–22, S I.	=	3–43–58.693

Longitudinal Correction L. C. for 77°--28′ E from table 3 and rule (6) (a).

° ′ ″		Hrs. ms. sds.
70--00--00	=	0--00-46·00
7--00--00	=	0--00--04·60
0–20–00	=	0–00–00·220
0–08–09	=	0–00–00·088
77–28–0	=	0–00–50·908

Example No. 14:—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hrs· 58 ms. 24.84 sds. Find the Siderial Time at Jaffna at 4 hrs. 3ms. 30 sds. P. M. Madras ((*i. e.* Indian) Standard Time on 7-5-1930 A. D. The longitude of Jaffna is 80°–0′ ms.

We have to proceed as in Example No. 12

		Hrs. ms. sds.	
Local Mean Time at Jaffna is (see rough work)	=	3–53–30 P. M.	
Interval of Mean Time M. I. for 3 hrs. 53 ms. 30 sds. P. M. from table No. 1 is	=	3–53–30	
Now			
S. T. at Mean Noon of Greenwich on 7-5-1930 is	=	2–58–24·84	(1)
Siderial interval S. I. for 3 hrs. 53 ms. 30 sds. (see rough work)	=	3–54–08·358	(2)
Adding (1) and (2) we have K.	=	6–52–33·198	(3)
Longitude Correction L. C. for difference in longitude between Greenwich and Jaffna is (see rough work)	=(—)0–00–52·57		(4)
Adding algebraically (3) and (4) we have H =	6–51–40·628		(5)

∴ The Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Madras (*i. e.* Indian) Standard Time at Jaffna on 7-5-1930 A. D. is 6 hrs. 51 ms. 40·628 sds. or 6 hrs. 51 ms. 41 sds. Answer.

ROUGH-WORK.

To find D from rule (1) (c) (2)

		° ′ ″	
Longitude of S	=	82–30–0 E	(1)
Longitude of Jaffna	=	80–00–0 E	(2)
Difference between (1) and (2)	=	2–30–0	(3)

To find Local Mean Time from table 5

	° ′ ″	Hrs. ms. sds.
For	2–00–00 D =	0–08–00
„	0–30–00 „ =	0–02–00
Adding for	2–30– 0, D =	0–10–00

Local Mean Time = 4 hrs. 3 m. 30 sds. P. M. minus 0 hr. 10 ms. 00 sd. = 3 hrs, 53 m. 30 sds. P. M.

To find Siderial Interval S. I. for 3 hrs. 53 m. 30 sds. from table No. 4 & rule (3)

	Hrs. ms. sds.		Hrs. ms. sds.
For	3–00–00	S. I. =	3–00–29·569
„	0–53–00	„ =	0–53–08·707
„	0–00–30	„ =	0–00–30·082
Adding for	3–53–30,	S. I. =	3–54–08·358

To find Longitude Correction L. C. for 80°-0′ E from Table 3 and rule (6) (a).

	Hrs. m. sds.		Hrs. m. sds.
For	80–0–0	L. C. =	0–00–52·57

Example No. 15 :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hours. 58 ms. 24·84 seconds. Find the Siderial Time at Bombay at 4 hours. 3 ms. 30 seconds. P. M. Madras (*i.e.* Indian) Standard Time on 7-5-1930 A.D. The longitude of Bombay is 72°–48′–54″ E.

We have to proceed as in Example No. 12.

		Hrs. ms. sds.
Local Mean Time at Bombay is (see rough work	=	3–24–46 P. M.
Interval of Mean Time M. I. for 3 hrs. 24 ms. 46 sds. P. M. from Table No. 1. is	=	3–24–46
S. T. at Mean Noon of Greenwich on 7-5-1930 is	=	2–58–24·84 (1)
Sidcrial interval S. I. for 3 hrs. 24 ms. 46 sds. (See rough work)	=	3–25–19·638 (2)

Now

Adding (1) and (2) we have K = 6–23–44·478 (3)

Longitude Correction L. C. for difference in longitude between Greenwich and Bombay. = (−)0–00–47·848 (4)

Adding algebraically (3) and (4) we have H = 6–22–56·630 (5)

∴ The Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Madras (*i. e.* Indian) Standard Time at Bombay on 7–5–1930 A. D. is 6 hrs. 22 ms. 56·63 sds. or 6 hrs. 22 ms. 57 sds. Answer.

ROUGH-WORK.

To find D. from rule 1 (c) (2)

	° ′ ″		
Longitude of S	= 82-30-00	E	(1)
Longitude of Bombay	= 72-48-54	E	(2)
Difference between (1) and (2)	= 9-41-06		(3)

		Hrs. ms. sds.
	° ′ ″	
For	9–00–00, D.	= 0–36–00
„	0–41–00, „	= 0–02–44
„	0–00–06, „	= 0–00–00·4
Adding for	9–41–06 D.	= 0–38–44·4

Local mean time = 4 hrs. 3 m. 30 sds. P. M. minus 0 hr. 38 m. 44·4 sds. = 3 hrs. 24 m. 45·6 sds. = 3 hrs. 24 m. 46 sds.

To find Siderial Interval S. I. for 3 hrs. 24 m. 46 sds. from rule (3)

	Hrs. ms. sds.		Hrs. ms. sds.
For	3–00–00, S. I.	=	3–00–29·569
„	0–24–00 „	=	0–24–03·943
„	0–00–46 „	=	0–00–46·126
Adding for	3–24–46, S. I.	=	3–25–19·638

Longitude Correction L. C. for 72° 48′ 54″ E from Table 3 and rule (6) (a)

	° ′ ″		Hrs. ms. sds.
For	70–00–00	L C	= 0–00–46.00
„	2–00–00	„	= 0–00–01·31
„	0–40–00	„	= 0–00–00·440
„	0–08–00	„	= 0–00–00·088
„	0–00–50	„	= 0–00–00·009
„	0–00–04	„	= 0–00–00·001
Adding for	72–48–54	L. C.	= 0–00–47·848

Example 16 :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hrs. 58 ms. 24.84 seconds. Find the Siderial Time at Calcutta at 4 hrs. 3 ms. 30 sds. P. M. Calcutta Standard Time (*i.e.* not Madras Standard Time) on 7-5-1930 A. D. The longitude of Calcutta is 88°–24′ E.

We have to proceed as in example No. 12.

	Hrs. ms. sds.	
Local Mean Time at Calcutta is (see rough work	=	4–35–45 P. M.
Interval of Mean Time M. I. for 4 hrs. 35 ms. 45 sds. P. M. from Table No. 1	=	4–35–45

Now

S. T. at Mean Noon of Greenwich on 7–5–1930 A. D. is	=	2–58–24·84 (1)

Siderial interval S. I. for 4 hrs. 35 ms. 45 sds. (see rough-work)	=	4–36–30·299	(2)
Adding (1) and (2) we have K	=	7–34–55.139	(3)
Longitude Correction L.C. for difference in longitude between Greenwich and Calcutta (see rough-work)	=(−)	0–00–58.094	(4)
Adding algebraically (3) and (4), we have	=	7–33–57·045	(5)

∴ The Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Calcutta Standard Time at Calcutta on 7–5–1930 A. D. is 7 hrs. 33 ms. 57.045 sds. or7 hrs. 33 ms. 57 sds. Answer.

ROUGH–WORK.

To find D from rule (1) (c) (2)

		° ′ ″	
Longitude of S.	=	80-20-12 E	(1)
Longitude of Calcutta	=	88-24-00 E	(2)
Difference between (1) and (2)	=	8-03-48	(3)

To find Local Mean Time from table 5

	° ′ ″		Hrs. ms. sds.
For	8–00–00	D =	0–32–00
,,	0–03–00,	,, =	0–00–12
,,	0–00–48,	,, =	0–00–03·2
Adding for	8–03–48,	D =	0–32–15·2

Local Mean Time = 4 hrs. 3 ms. 30 sds. P.M. plus 0-32-15.2 as Calcutta is to the east of S. = 4 hrs. 35 ms. 45·2 sds. = 4 hrs. 35 ms. 45 sds.

To find Siderial Interval S. I. for 4 hrs. 35 ms. 45 sds. from Table No. 4 and rule 3

Hrs. ms. sds		Hrs. ms. sds.
4–00–00	=	4–00–39·426
0–35–00	=	0–35–05·750
0–00–45	=	0–00–45·123
4–35–45, S.I.	=	4–36–30.299

To find Longitude correction L. C. for 88°–24′ E from table 3 and rule (6) (a)

	° ′ ″		Hrs. ms. sds.
For	80–00–00	L. C. =	0–00–52·57
„	8–00–00	„ =	0–00–05·26
„	0–20–00	„ =	0–00–00·220
„	0–04–00	„ =	0–00–00·044
Adding for	88–24–00,	L. C. =	0–00–58·094

Example 17:—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hrs. 58 ms. 24·84 sds. Find the Siderial Time at Mauritius at 4 hrs. 3 ms. 33 sds. P. M. Mauritius Standard time (*i. e.* neither Madras nor Calcutta Standard time) on 7-5-1930 A. D. The longitude of Mauritius is 57° 33′ 9″ E

We have proceed as in example No. 12.

	Hrs. ms. sds	
Local Mean Time at Mauritius is (See rough work	= 3–53–43 P. M.	
Interval of Mean Time for 3 hrs. 53 ms. 43 P. M. from table N. 1	= 3–53–43	
Now		
S. T at Mean Noon of Greenwich on 7–5–1930 A. D. is	= 2–58–24·84	(1)
Siderial interval for 4 hrs. 53 ms. 43 sds. (see rough-work)	= 3–54–21·394	(2)
Adding (1)and (2) we have	= 6–52–46·234	(3)
Longitude Correction for difference in longitude between Greenwich and Mauritius (See Rough Work)	=(−)0–00–37·815	(4)
Adding algebraically (3) and (4) we have	= 6–52–08·419	(5)

∴ The Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Mauritius Standard Time at Mauritius on 7–5–1930 A. D. is 6 hrs. 52 ms. 08·419 sds. or 6 hrs. 52 ms. 08 sds. Answer.

ROUGH-WORK.

To find D from rule (1) (c) (2)

	° ′ ″	
Longitude of S	=60–00–00 E	(1)
Longitude of Mauritius	=57–33–09 E	(2)
Difference between (1) and (2)	= 2–26–51	

To find Local Mean Time from table 5

	° ′ ″		H. ms. sds.
For	2–00–00	D =	0–08–00
„	0–26–00	„ =	0–01–44
„	0–00–51	„ =	0–00–03.4
Adding for	2–26–51	D =	0–09–47·4

Local Mean Time = 4 hrr. 3 ms. 30 sds. minus 0–09–47·4 = 3–53–42·6 P. M. = 3 hrs. 53 ms. 43 sds. P. M.

To find Siderial Interval S. I. for 3 hrs. 53 ms. 43 sds. from table 4 and rule 3.

	Hrs. ms. sds.		Hrs. ms. sds.
For	3–00–00	S. I. =	3–00–29·569
„	0–53–00	„ =	0–53–08.707
„	0–00–43	„ =	0–00–43.118
Adding for	3–43–34	S. I. =	3–54–21·394

Longitude Correction L. C. for 57°-33′-9″ E from Table No. 3 and rule 6 (a)

	° ′ ″		Hrs. ms. sds.
For	50–00–00	L. C. =	0–00–32·85
„	7–00–00	„ =	0–00–04.60
„	0–30–00	„ =	0–00–00·330
„	0–03–00	„ =	0–00–00·033
„	0–00–09	„ =	0–00–00·002
Adding for	7–33–09,	L. C. =	0–00–37·815

Example (*18*) :—The Siderial Time for Madras at the Midnight of 14–4–1938 A. D. Madras (*i. e.* Indian) Standard Time is given in a certain panchang as 13 hrs. 16 ms. 7 sds. Find the Siderial Time at Madras at 4 hrs. 3 ms. 56 sds. P. M. Madras (*i. e.* Indian) Standard Time. The longitude of Madras is given as 80°–14'–47"·10 E.

The midnight of 14–4–1938 is the midnight with which the day with date 14–4–1938 commences *i. e.* the midnight which is eight hours immediately before and not the midnight which is 16 hours after 8 A. M. on 14–4–1938. Here the given Siderial Time is for Madras and not for Greenwich and is also for Madras Standard time midnight and not for Greenwich Mean Noon or Madras Mean Noon or Madras Mean Midnight.

We have to proceed as follows.

Here *Longitude Correction* has to be made from rule (6) (b) and with Table No. 3 for the difference between the longitude of Madras (S) for which Siderial Time is given (and not of Greenwich as before) and the longitude of the required place P namely Madras. As the difference in longitude between the longitude of the place for which Siderial Time is given and the longitude of the required place is zero (as these two places are one and the same), the longitude correction becomes zero. If for example the required place is taken as Kodaikanal, then the required place Kodaikanal and Madras for which Siderial Time is given become different places and there will then be some value for longitude correction. *This Correction will be positive or negative as stated in rule* (*6*) (*b*). Table No. 2 and not Table No. 1 has to be used as the given Siderial Time here is for Midnight. Table No. 1 should be used only when the given Siderial Time is for Noon.

	Hrs. ms. sds.
Local Mean Time at Madras for 4 hrs. 3 ms. 30 sds. P. M. Madras Standard Time is (see rough work	= 3–54–29 P. M.
Interval of Mean Time for 3 hrs. 54 ms. 29 sds. from Midnight according to Table No. 2 is	=15–54–29

		Hrs. ms. sds.	
S. T at Midnight of Madras on 14–4–1938	=	13–16–07	(1)
Siderial interval for 15 hrs. 54 ms. 29 sds. is (see rough work)	=	15–57–05·797	(2)
Adding (1) and (2) we have	=	29–13–12·797	(3)
Longitude Correction L. C. for difference in longitude between the place for which Siderial Time is given and the required place	=	0–00–00	(4)
Adding algebraically (3) and (4) we have	=	29–13–12·797	(5)
Subtracting 24 hours we have	=	5–13–12·797	(6)

∴ The Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Madras Standard Time at Madras on 14–4–1938 A. D. is 5 hrs. 13 ms. 12.797 sds. or 5 hrs. 13 ms. 13 sds. Answer.

ROUGH-WORK.

To find D from rule 1 (c) (2) and to find Local Mean Time.

		° ′ ″	
Longitude of S.	=	82–30–00 E	(1)
Longitude of Madras	=	80–14–47·10E	(2)
Difference between (1) and (2)	=	2–15–12·90	(3)
	=	2–15–13	(4)

From table No. 5

	Hrs. ms. sds.		Hrs. ms. sds.
For	2–00–00	D. =	0–08–00
„	0–15–00	„ =	0–01–00
„	0–00–13	„ =	0–00–00·867
Adding for	2–15–13,	D. =	0–09–00·867
		D =	0–09–01

Local Mean Time = 4 hrs. 3 ms. 30 sds. P. M. minus 0–09–01 = 3 hrs. 54 ms. 29 sds. P. M.

To find interval of Mean Time M. I. for 3 hrs. 54 m. 29 sds. P. M. use Table No. 2 as we have to count from Mid-night and not from Noon as the given Siderial Time is for Mid-night. If we do so, we get 15 hrs.54 ms. 29 sds. as the interval

To find Siderial Interval S. I. for 15 hrs. 54 ms. 29sds. from Table No. 4.

	Hrs. ms. sds.		Hrs. ms. sds.
For	15–00–00	S. I. =	15–02–27·847
„	0–54–00	„ =	0–54–08·871
„	0–00–29	„ =	0–00–29·079
Adding for	15–54–29	S. I. =	15–57–05·797

To find Longitude Correction L. C. from Table No. 3 and rule (6) (b) for the difference in longitude between the place (*i.e* Madras) for which Siderial Time is given and the required place (*i.e.* Madras).

	° ′ ″	
Longitude of the place for which Siderial Time is given is	= 80-14-47·10 E	(1)
Longitude of the required place *i. e.* the same place Madras	= 80-14-47·10 E	(2)
Difference between (1) and (2)	= 0-00-00	(3)

As No. 3 is zero, the Longitude Correction L. C. is zero. The Longitude Correction will be zero when the place for which the Siderial Time is given and the required place are the same. Please note this carefully.

To enable the reader to have a clear idea of the several kinds of problems that may present themselves to the reader, I have given many examples purposely. By following these examples and the rules given hitherto, the Siderial Time for any required place for any required moment can be easily calculated.

(Insert this between Item No. 7 and Item No. 8 as Item No 7 A)

THE GENERAL METHOD OF FINDING SIDERIAL TIME FOR ANY PLACE IN THE WORLD..

ITEM No 7 (A):—

The General Method of finding Siderial Time consists of :—

(1) finding the Siderial Time at the local mean noon or midnight at the required place P from the given Siderial Time at the local mean noon or midnight of a standard place G like Greenwich, Madras, Paris, Berlin, San Fernando and Washington for which Siderial Times are usually given in Panchangs or Nautical Almanacs.

(2) finding the local meantime of the required place P for the required moment.

(3) finding then the clock time interval between the local mean noon or local mean midnight and the local mean time of the required place P. for the required moment.

(4) finding then the siderial time interval corresponding to the clock time interval calculated in item No. 7 A (3) above.

(5) finding then the sum of the Siderial Time at the local mean noon or midnight at the required place P found in item No. 7 A (1) and the siderial time interval found in item No. 7 A (4). This sum gives the required Siderial Time at the required or given moment at the required place P.

(6) To find the local Siderial Time at the local mean noon or midnight at the required place P. :—

Let the Siderial Time given at mean Noon of Greenwich or any place G be n. Let the Siderial Time given at mean Midnight of Greenwich or any place G be m. Let the longitude of the place P be l and the difference in longitude between l and the longitude of Greenwich (or any place G for which siderial time at noon or midnight is given) be q. Then find the longitude correction L. C. from table No. 3. for q.

Then n—L. C. is the Siderial Time (s) at mean noon of P if P is to the east of Greenwich or G.

Then n+L. C. is the Siderial Time (s) at mean noon of P if P is to the west of Greenwich or G.

Then m—L. C. is the Siderial Time (s) at mean midnight of P if P is to the east of Greenwich or G.

Then m+L. C, is the Siderial Time (s) at mean midnight of P if P is to the west of Greenwhich or G.

(7) If the required moment or given moment is expressed in terms of the local mean time of the required place P, use the given time itself as the local mean time.

(8) (a) If the time used in the required place P is the mean time or standard time used in a Province or Presidency or any tract of land, find the time difference between this mean time or standard time and the Greenwich Mean Time as the case may be. Let this time difference be t in clock time t being always a positive quantity. And let the required moment or given moment be k.

(8) (b) If the required place P is to the east of Greenwich (*i.e.* if P has an eastern longitude) then the Greenwich Mean Time corresponding to the given moment k is equal to (k—t).

(8) (c) If the required place P is to the west of Greenwich (*i.e.* if P has a western longitude) then the Greenwich Mean Time corresponding to the given moment k is equal to (k+t).

(8) (d) Let the longitude of the required place P be l. Then find from table No. 5 the correction (D) for l which is also the difference in longitude between the required place P and Greenwich.

Then (k—t)+D will be the local mean time at P for the moment k if P has an eastern longitude.

Then (k+t)—D will be the local mean time at P for the moment k if P has a western longitude.

(9) Then find the clock time interval (M. I.) from Table No. 1 or table No. 2 for k—t+D or k+t—D as the case may be.

(10) Then find from Table No. 4 the Siderial Time interval (S. I.) for M. I. found in item No. 7 A (9) above.

(11) Then the required siderial time for the required place P at the required moment k is equal to the sum of s found in item No. 7 A (6) and S. I. found in item No. 7 A (10) above. *i. e.*, the required Siderial Time (H)=s+S. I. If s+S. I. is greater than 24 hours, subtract 24 hours and the remainder is then the required siderial time.

Example (*a*). The Siderial Time at the Mean Noon of Greenwich on 7 5-1930 A. D. is given as 2 hours. 58 ms. 24·84 seconds. Find the Siderial Time at Madras at 4 hours. 3 ms. 30 seconds P. M. Indian Standard Time on 7-5 1930 A. D. The longitude of Madras is 80°-14′-47″·10 E. The longitude of Greenwich is 0°-0′-00′.

	Hrs. ms. sds.	
Siderial Time at Greenwich Noon=	n =2 58-24·84	(1)
The longitude correction from Table No. 3 (See rough work) =	L. C.=0 00-52·732	(2)
∴ Siderial Time (s) at Mean Noon of P, by subtracting (2) from (1) =	n—L.C=2 57-32·108	(3) =s

We know that the time difference between the Indian Standard Time and the Greenwich Mean Time is 5 hrs. 30 ms So t = 5 hrs. 30 ms.

Here the required moment =k= 4 hrs. 3 ms. 30 sds.(4)

Time difference =t= 5 hrs. 30 ms. 0 sd. (5)

∴ k—t=22 hrs. 33 ms. 30 sds.(6) by adding 24 hrs. to (4) and subtracting (5) from the sum.

	Hrs. ms. sds.	
The correction D for l the difference in longitude between P and Greenwich (see rough work) =	D = 5-20 59·133	(7)

∴ Adding (6) and (7), k—t + D =27-54-29·133 P.M.

= 3-54-29·133 P.M

= 3-51-29 P.M. (8)

	Hrs. ms. sds.	
The clock time interval M. I. from table No. 1 for 3–54–29 P.M.	M.I.= 3–54–29	(9)
The Siderial Time interval S. I. from 3 hrs. 54 ms. 29 sds. (See rough work)	=S. I.=3 55–07·519	(10)
Siderial Time H for the required moment k at P, by adding (3) and (10)	= H =6–52–39·627	(11)

∴ the required Siderial Time = 6–52–39·627

We have got this result in Example No. 12 in another way.

ROUGH-WORK.

To find L. C. from Table No. 3

		° ′ ″
Longitude of Madras	=	80–14–47·10 E
Longitude of Greenwich	=	0–00–00
Difference in Longitude = q	=	80–14–47·10 E

		° ′ ″		
From Table 3	for	80–00–00	L. C.	= 52.57 sds.
	„	0–10–00	„	= 00.110 „
	„	0–04–00	„	= 00·044 „
	„	0–00–40	„	= 00·007 „
	„	0–00–07	„	= 00·001 „
Adding for		80–14–47,	L. C.	= 52.732 sds. (2)

To find D From Table No. (5)

		° ′ ″
Longitude of Madras	=	80–14–47·10 E
Longitude of Greenwich	=	0–00–00
Difference in Longitude = l	=	80–14–47·10 E

	° ′ ″		Hrs. ms. sds.
From Table No. 5 for	80–00–00	D. =	5–20–00
„	0–14–00	„ =	0–00–56
„	0–00–47	„ =	0–00–03.133
Adding for	80–14–47,	D. =	5–20–59.133(7)

To find the Siderial Time Interval S. I. for Clock time interval of 3 hrs. 54 ms. 29 sds. from table 4.

	Hrs. ms. sds		Hrs. ms. sds.
From Table No. 4 for M. I. =	3–00–00	S. I. =	3–00–29·569
„	0–54–00	„ =	0–54–08·871
„	0–00–29	„ =	0–00–29.079
Adding for M.I. =	3–54–29,	S .I. =	3–55–07.519 (10)

SECTION III :—

FOR NORTHERN LATITUDE.

ITEM No. 10.—Hitherto we have dealt with the question of calculating the Siderial Time for a required place for the required moment. This required place is the place for which we have to calculate (1) Lagna (*i.e.* Udaya Lagna or Ascendant) and (2) the approximate middle points of the several Indian Bhavas (*i.e.* the exact Cusps of several houses of European Astrology). This required moment is the moment of Birth or the moment of any muhurtha or the moment of any prasna for which we have to calculate the Udaya Lagna (*i.e.* Asendant) and the approximate middle points of the several Indian Bhavas (*i.e.* the exact cusps of several houses of European Astrology). I shall illustrate the method of calculation by taking a concrete example with the help of Table No. 9. Table No. 9 gives the Tropical longitudes of Udaya Lagna (*i.e.* Ascendant) and the Dasama Lagna or the approximately middle point of the Indian tenth Bhava (*i.e.* the exact cusp of the tenth house of European Astrology.) for a given integral latitude from 0° degree to 36° North and South and for an interval of 12 minutes of Siderial Time from 0 hour to 24 hours of Siderial

Time. For intermediate latitudes and siderial times we have to make calculation by the rule of three.

Example 19 :—Calculate the longitude of Udaya Lagna (*i.e.* Ascendant) and of Dasama Lagna or the approximate Middle Point of the Indian Tenth Bhava for Madras at 4 hrs. 3 ms. 30 sds. P. M. Madras (*ie.* Indian) Standard Time on 7-5-1930 A. D. The latitude of Madras is 13°-04′ North and the longitude of Madras is 80°-14′-47′·10 E.

First :—We have to calculate the Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Indian Standard Time on 7-5-1930 A. D. It will be seen from Example No. 12 that the Siderial Time for the required place Madras and the required moment is 6 hrs. 52 ms. 40 sds.

Secondly :—We have now to calculate the Udaya Lagna and Dasama Lagna for the Siderial Time of 6 hrs. 52 ms. 40 sds. for the latitude of 13°-04′ which is the latitude of Madras.

PART A :—*We shall now enter the table No. 9* :—The latitude of 13°-04′ North is between the latitude of 13° N and 14° N. The calculated Siderial Time of 6 hrs. 52 ms. 40 sds. is between 6 hrs. 48 ms. and 7 hrs. 00 ms. We have to enter the figures for Udaya Lagna in the table No. 9 against these 6 hrs. 48 ms. and 7 hrs. 00 ms. and also against 13° N and 14° N as shown below in the Udaya Lagna Longitude Table constructed for this example. Now, first take the Siderial Time only, ignoring the latitude and find by proportion (*i.e.* rule of three) the Udaya Lagna longitude for the calculated Siderial Time of 6 hrs. 52 ms. 40 sds. taking the longitude for 6 hrs. 48 ms. and 7 hrs. 00 ms. as 191° 53′ and 194°—50′. The Udaya Lagna for 6 hrs. 52 ms. 40 sds. becomes 193°-02′ as shown in the rough work No. (1). Similarly find by proportion the Udaya Lagna longitude for the calculated Siderial Time of 6 hrs. 52 ms.

Constructed Udaya Lagna Longitude Table from table 9

Siderial Time		Latitude	
Hr.	Ms.	13° N	14° N
6	48	191°–53′	191°–48′
7	00	194°–50′	194°–43′

10 sds. taking the longitudes for 6 hrs. 48 ms. and 7 hrs. 00 m. as 191°-48′ and 194°-43′. If we do so, we get the Udaya Lagna for 6 hrs. 52 ms. 40 sds. as 192°–56′. The problem has now been reduced to this, namely, find the Udaya Lagna longitude for 13°–04′ N. when the Udaya Lagna longitudes for latitudes 13° N and 14° N are 193°–02′ and 192°–56′ respectively. So by rule of three, the Udaya Lagna longitude for 13°–04′ N becomes 193°–01′–36 as shown in the rough work No. 3. So the Udaya Lagna longitude for the calculated Siderial Time of 6 hrs. 52 ms. 40 sds. for the latitude of 13°–04′ of Madras is 193°–01′–36′. This longitude is Tropical longitude or sayana longitude. If we subtract ayanamsa for 7-5-1930 A. D. from Tropical longitude we will get the Nirayana Longitude or the Indian Siderial Longitude for the required moment of 4 hrs. 3 ms. 30 sds. P. M. Indian Standard Time on 7-5-1930 A. D. at Madras.

ROUGH WORK No. 1.

	Siderial Time in Hr. M. Sds.	
S. T. calculated	= 6–52–40	(1)
S. T. in the Table	= 6–48–00	(2)
Difference between (1) and (2)	= 0–04–40	(3)
	= 280 sds.	(4)

Udaya Lagna Longitude is

For S. T. 7 hrs. 00 m. ...	194°–50′	(5)
„ S. T. 6 hrs. 48 m. ...	191°–55′	(6)
„ S. T. difference of 0 hrs. 12 m.	2°–57′	(7)(*i.e.*)(5)—(6)
„ or S. T. 720 sds, =	or 177′	(8)
„ 280 sds. (4) =	$\frac{177 \times 280}{720}$ =	
	= 69 ms.	
	= 1°–09′	(9)
Adding (6) and (9) we get for 6 hrs. 52 m. 40 sds.	193°–02′	(10)

ROUGH WORK No. 2.

Udaya Lagna

		Siderial Time Hrs. m. sds.	
S. T. calculated	...	6–52–40	(1)
S. T. in the table	...	6–48–00	(2)
Difference between (1) and (2)		0–04–40	(3)
		= 280 sds.	(4)

		Longitude is	
For S. T. 7 hrs. 00 m....		194°–43′	(5)
„ S. T. 6 hrs. 48 m.		191–48	(6)
„ S. T. difference of 0–12 m.		2–55	(7) *i.e.* (5)—(6)
or S. T. 720 sds.	=	or 175′	(8)
For 280 sds. (4)	=	$\frac{175 \times 280}{720}$	
	=	68′	
	=	1°–08′	(9)
Adding (6) & (9) we get for 6 hrs. 52 ms. 40 sds.		192°–56′	(10)

ROUGH WORK No. (3)

Udaya Lagna

Latitude for required place	...	13°–04′	(1)
Latitude in the table	...	13°–00′	(2)
Difference between (1) & (2)	...	0 –04	(3)

Udaya Lagna Longitude is

For latitude 13°–00		= 193–02	(4)
For latitude 14–00		= 192–56	(5)
For latitude difference of	1°–00	= (—) 0–06	(6)
or	60′	= (—) 6′	
For 04′ (3)		$\frac{6 \times 4}{60}$	(7)
		=(—) 0°–00′–24′	(8)
Adding algebraically (4) & (8) we have = 193°–01′–36″			(9)

PART B :—*Dasama Lagna Calculation* :—Dasama Lagna (or Madya Lagna or Dasama Madya Lagna as it is also called or the cusp of the European tenth house, varies only with Siderial Time and not with the latitude of the place. *i.e.* the Dasama Lagna is the same for all latitudes for the same Siderial Time. So our problem for finding the longitude of the Dasama Lagna becomes thus:—Find the longitude of the Dasama Lagna for the Siderial Time of 6 hrs. 52 ms. 40 sds. when the longitudes of the Dasama Lagnas for the Siderial Times of 6 hrs. 48 ms. and 7 hrs. 00 m. are 101°–02′ and 103°–49′ respectively. We have to enter the figures as follows and calculate by rule of three the longitude for the calculated Siderial Time as shown in the rough work. If we do so, the longitude of Dasama Lagna becomes 102°–07′. Therefore the Longitude of Dasama Lagna for 4 hrs. 3 ms. 30 sds P. M. Madras Standard Time on 7-5-1930 A. D. at Madras is 102°–07′. This longitude is Tropical Longitude. If we subtract the ayanamsa for 7-5.1930 A. D. from the Tropical longitude, we will get the Nirayana Longitude or the Indian Siderial longitude for the required moment of 4 hrs. 3 ms. 30 sds. P. M. Indian Standard Time on 7-5-1930 A. D. at Madras.

Constructed Madya Lagna Longitude Table

Siderial Time		Longitude of Dasama Lagna	
Hrs.	Ms.	Degree	Minute
6	48	101	02
7	00	103	49

ROUGH WORK No. 1.

		Siderial Time Hrs. ms. sds.	
S. T. calculated		6–52–40	(1)
S. T. in the table		6–48–00	(2)
Difference between (1) and (2)	=	0–04–40	(3)
	=	280 sds.	(4)
		Longitude is	
For S. T. 7 hrs. 00 m.		103°–49′	(5)
„ S. T. 6 hrs. 48 m.		101°–02′	(6)
„ S. T. difference of 0 hrs. 12 m.		2–47	(7) (5)—(6)

or for 720 sds.		=	167′ (8)
For 280 sds. (4)	...	=	$\frac{167 \times 280}{720}$
			= 65′
		= 1°–05′	(9)
Adding (6) and (9) we have		= 102°–07′	(10)

ITEM No. 11 :—

Example No 20:—To calculate the ayanamsa on 7-5-1930 A.D.

The Mesha Sankranthi in 1930 A. D. took place on 13-4-1930 A. D. (This information can be got from any panchang and should be got so as the quantity in column (2) in Table No 7 against the years is given for the Mesha Sankranthi moment in each year.)

∴ The number of days between 13-4-1930 A. D. and 7-5-1930 A. D. exclusive of 7-5-1930 A. D. is 24 days as shown in the rough work No 1.

Ayanamsa for 7-5-1930 A. D. is 22°–40′–39″+ *a* for 1930 A. D. + b for 24 days given in tables Nos. 7 and 8 and this becomes 22°–44′–54″ as shown in the rough work No. 2

ROUGH-WORK

No, 1.

In April, from 13–4–1930 to 1–5–1930 we have 18 days.

In May, from 1–5–1930 to 7–5–1930 „ 6 „

∴ So from 13–4–1930 to 7–5–1930 „ 24 „

No. 2.

Ayanamsa		= 22–40–39 +	(1)
For 1930 A. D. from Table 7, *a* is		= 0–04–12	(2)
For 20 days from table 8, *b*		= 0–00–0·27	(3)
4 days	„ *b*	= 0–00–00·5	(4)
∴ So Ayanamsa		= 22–44–54·2	
		= 22–44–54 nearly	

ITEM No 12:—

Example 21 :—Find Nirayana Longitudes from Tropical (Sayana) Longitudes of Udaya Lagna and Dasama Lagna when their Tropical Longitudes are 193°–01′–36″ and 103°–07′–00″ and the ayanamsa is 22°–44′–54″.

The Tropical longitude of Udaya Lagna as calculated already is (*vide Ex* 19–Part A	° ′ ″ =193–01–36 (1)	The Tropical longitude of Dasama Lagna as calculated already is *Vide Ex.* 19-Part B.	° ′ ″ =102–07–00 (2)
Ayanamsa for 7-5-1930 A. D. aa worked out above see Item No.11	= 22–44–54(3)	Ayanamsa for 7-5-1930 A. D. as worked out above see item No. 11.	= 22–44–54 (4)
∴ Nirayana Longitude is [(1) minus (2)]	=170–16–42	Nirayana Longitude is [(2) minus (4)]	= 79–22–06
∴ Nirayana Longitude of Udaya Lagna is	=170–17nearly	∴ Nirayana Longitude of Dasama Lagna is	= 79–22 nearly.

ITEM No 13 :—

To Erect Bhavachakra :—There are four important or cardinal points in a Rasi chakra. They are (1) Udaya Lagna (or Simply Lagna or First Bhava or Ascendant or First House). (2) Chathurtha Lagna (or Fourth Bhava or Fourth House). (3) Asthamana Lagna (or Seventh Bhava or Descendant or Seventh House) and the Dasama Madya Lagna (or Tenth Bhava or Tenth House). Asthamana Lagna is exactly 180° from the Udaya Lagna and the Chathurtha Lagna is also exactly 180° from the Dasama

Madya Lagna. Similarly the Second Bhava, the third Bhava, the Fifth Bhava and the Sixth Bhava are exactly 180° away from the Eighth Bhava, the Nineth Bhava, the Eleventh Bhava and the Twelfth Bhava respectively. The relationship of these twelve bhavas or houses can be expressed as follows :—

If a°, b°, c°, d°, e°, and f° are the longitudes (whether Tropical or Indian siderial) of the first six bhavas or houses respectively, the longitudes (whether Tropical or Indian Siderial) of the next six bhavas or houses commencing from the Seventh Bhava or House are a°+180°, b°+180°, c°+180°, d°+180°, e°+180° and f°+180°. So to erect a Bhava chakra, we have only to calculate the longitudes of the first six bhavas.

ITEM No. 14 :—*Several Kinds of Division of the Houses or the Bhava Chakra* :—

The Ecliptic commensing from the Udaya Lagna or Ascendant is divided into twelve parts called Bhavas in Indian Astrology and Houses in European Astrology. The process of dividing the Ecliptic into Houses is called "House Division" and ready made tables giving the several houses are called "Tables of Houses" There are nearly a dozen different methods of "House Division" in European astrology and each method of House Division has its own votaries or supporters who condemn all the other methods, and consequently there are several different "Tables of Houses" which differ from one another. Hindu Astrology is fundamentally quite different from European Astrology and differs from it radically in almost all its essential elements. So for as Hindu Astrology is concerned, only one method of "Bhava Division" as it is called has been adopted universally and it has the support of famous Indian Astrologers and Indian Astronomers. It is also one of the several methods followed in European Astrology. This method has been employed for the construction of the Astrological

Tables of the Lagna and Other Houses or Bhavas of this book. This method consists of the following several stages:—

RULE No. (7):—finding the Udaya Lagna, and the Dasama Madya Lagna and finding from these the Asthamana and Chathurtha Lagnas by adding 180° respectiuely to Madya Lagna and Dasama Madya Lagna.

RULE No. (8) (2):— adding 1/3 of the difference in longitude between the longitudes of the Chathurtha Lagna and the Udaya Lagna to the longitude of the Udaya Lagna twice successively to get the Second and Third Bhavas.

RULE No. (9):— adding ¼ of the difference in longitude between the longitudes of the Asthamana (or Sapthama) Lagna and the Chathurtha Lagna to the longitude of the Chathurtha Lagna twice successively to get the Fifth and the Sixth Bhavas.

RULE No. (10):— adding 180° to the longitudes of the first Six Bhavas (as calculated with the help of the rules 7 to 9) to get the remaining six bhavas commencing with the Seventh Bhava.

ITEM No 14 (a):—I shall now illustrate the method with a concrete example.

Example No. 22:—Erect (*i.e.* cast) a Bhavachakra when the Tropical Longitudes of the Udaya Lagna and the Dasama Lagna are 193°-1′-36 or 193°-02′ nearly and 102°–07′ as calculated in Example No- 19.

Use rule No. 7.	° ' "	
Tropical longitude of Udaya Lagna is	=193–02–00	(1)
Add	=180–00–00	(3)
Total of (1) and (3) is the Tropical longitude of the Sapthama Lagna	=373–02–00	
(Subtracting 360° if the total exceeds 360	= 13–02–00	(5)
Use Rule 8		
Tropical longitude of Chathurtha Lagna is from (6)	=282–07–00	(7)
Tropical longitude of Udaya Lagna is from (1)	=193-02–00	(8)
Difference betwean (7) and (8)	= 89–05–00	(9)
⅓ of the difference *i. e.* of No. (9)	= 29–41–40	(10)
Longitude of Second Bhava is [by adding (8) and (10)]	=222–43–40	(11)
Longitude of the Third Bhava is [by adding (11 and 10)]	=252–25–20	(12)
Longitude of the Fourth Bhava is [by adding (12 and 10)] same as (6)	=282–07–00	(13)

Use rule No. 7.	° ' "	
Tropical longitude of Dasama Lagna is	=102–07–00	(2)
Add	=180–00–00	(4)
Total of (2) and (4) is the Tropical longitude of the Chathurtha Lagna	=282–07–00	(6)
Use Rule 9		
Tropical longitude of Saptama Lagna is from (5)	= 13–02–00	(14)
Tropical longitude of Chathurthe Lagna is from (6)	=282–07–00	(15)
Difference between (14) and (15) is If (14) is less than (15) add 360° to (14) before subtraction	= 90–55–0 0	(16)
⅓ of the difference *i. e.* of No. (16)	= 30–18–20	(17)
Longitude of Fifth Bhava is [by adding (15) and (17)	=312-25–20	(18)
Longitude of Sixth Bhava is [by adding (18) and (17)	=342–43–40	(19)
Longitude of Seventh Bhave is [by adding (19) and (17) same as No. (5)	=373–02–03 or 13–02–00	(20)

ITEM No. 15 :—

Use Rule 10 :—

No. of the Bhavas.	Tropical Longitude of the cusps or Bhavas. (21)	Add 180° (22)	Tropical Longitude of the cusps or Bhavas Nos. 7 to 12 (By adding (21) & (22) & subtracting 360° if necessary. (23)	No. of the Bhavas thus got.
	° ′ ″	° ′ ″	° ′ ″	
1st cusp or Bhava	193-02-00 (1)	180-00-00	13-02-00	7th cusp or Bhava
2nd „	222-43-40 (11)	180-00-00	42-43-40	8th „
3rd „	252-25-20 (12)	180-00-00	72-25-20	9th „
4th „	282-07-00 (13)	180-00-00	102-07-00	10th „
5th „	312-25-20 (18)	180-00-00	132-25-20	11th „
6th „	342-43-40 (19)	180-00-00	162-43-40	12th „

Name of the Cusps or Bhavas.	Tropical Longitudes of the cusps or Bhavas 1 to 12 same as (21) & (23). (24)	Ayanamsa from item No. (11). (25)	Siderial or Nirayana Longitude. (24) minus (25) (26)
	° ′ ″	° ′ ″	° ′ ″
1st cusp or Bhava	193-02-00	22-44-54	170-17-06
2nd „	222-43-40	„ „	199-58-46
3rd „	252-25-20	„ „	229-40-26
4th „	282-07-00	„ „	259-22-06
5th „	312-25-20	„ „	289-40-26
6th „	342-43-40	„ „	319-58-46
7th „	13-02-00	„ „	350-17-06
8th „	42-43-40	„ „	19-58-46
9th „	72-25-20	„ „	49-40-26
10th „	102-70-00	„ „	79-22-06
11th „	132-25-20	„ „	109-40-26
12th „	162-43-40	„ „	139-58-46

Now.

(1) in the above item No. 15, the figures under column No. (24) give, the Trapical Longitudes of the Cusps of the several Houses

from the First House to the Twelfth House according to European Astrology. The Tropical or Sayanic or Western Bhavachakra or Houses is or are therefore as given below.

Tropical or Sayanic or Western Bhavachakra or Houses.

Name of the House.	Tropical Longitude	
	from	to
	° ′ ″	° ′ ″
1 st House	193—02—00	222—43—40
2 nd „	222—43—40	252—25—20
3 rd „	252—25—20	282—07—00
4 th „	282—07—00	312—25—20
5 th „	312—25—20	342—43—40
6 th „	342—43—40	13—02—00
7 th „	13—02—00	42—43—40
8 th „	42—43—40	72—25—20
9 th „	72—25—20	102—07—00
10 th „	102—07—00	132—25—20
11 th „	132—25—20	162—43—40
12 th „	162—43—40	193—02—00

(2) In the above item No. 15, the figures under column No. (26) give the Siderial or Nirayana Longitudes of the middle points of the Several Bhavas from the First to the Twelfth Bhava according to Indian Astrology.

The First cusp, the Second cusp and so on are the beginnings of the First House, of the Second House and so on. The Second cusp is the beginning of the Second House or the end of the First House and so on. So a particular cusp is the beginning of that particular House and the end of the previous House in European astrology. In IndianAstrology, the First Cusp is approximately the middle of the First Bhava and (*not exactly* the middle of the Bhava. Whenever we speak of the longitude of a Bhava in Indian Astrology, we mean the longitude of the " approximately middle point of that Indian Bhava; for instance when we speak of the longitude of the Third Bhava we mean the longitude of the "approximately middle point of the Third Bhava."

ITEM No. 16 :— I have so for shown how to erect the European Bhavachakra according to European astrology *i. e.* how

to prepare a table of houses for the required moment for the required place. I shall now show how to erect the Indian Bhavachakra according to Indian astrology with a knowledge of the longitudes of the middle points of the several Indian Bhavas *i. e.* I shall now show how to calculate accurately the Nirayana longitudes of the Beginning and the End of the several Indian Bhavas with a knowledge of the longitudes of the approximately middle points of the several Indian Bhavas. For conveniance sake I shall call the "approximately middle point" of a Bhava by the name of "Bhava Point." The exactly midddle point between the longitude of the particular Bhava Point (say fourth Bhava Point) and the longitude of the immediately preceding Bhava Point (*i. e.* the third Bhava Point) is the beginning of that particular Bhava namely Fourth Bhava. The exactly middle point between the longitude of a particular Bhava Point (say fourth Bhava Point) and the longitude of the immediately succeeding Bhava Point (*i. e.* the fifth Bhava Point) is the end of that particular Bhava namely the Forth Bhava. The exactly middle point immediately preceding a particular Bhava Point is called the Aramba Sandhi of that Bhava. The exactly middle point immediately succeeding a partiular Bhava Point is called Virama Sandhi of that Bhava. The Aramba Sandhi and the Virama Sandhi of a particular Bhava are the beginning and end of that particular Bhava. At the Aramba Sandhi and Virama Sandhi of a particular Bhava, the effects of that Bhava are nil.

ITEM No. 17 :—

CALCULATION OF THE BEGINNING AND END OF AN INDIAN BHAVA.

Example No. 23 :—The Nirayana longitudes of the Third Fourth and Fifth Bhava Points are respectively 229°–40′–26″, 259°–22′–06″, and 239°–40′–26″. Find the Nirayana longitudes o the Beginning and End of the Fourth Bhava.

We proceed as follows. ° ′ ″

Longitude of the Fourth Bhava Point is		259–22–06	(1)
Longitude of the Third Bhava Point is		229–40–26	(2)
Diffcrence between (1) and (2)	is ...	29–41–40	(3)

Half of (3) 14–50–50 (4)

Adding (2) and (4) we get the longitude of the Beginning of the Fourth Bhava as 244–31–16 (5)

We can easily get 244°–31–16″ (5) by adding (1) and (2) and dividing the total by 2. So if we divide the sum of the longitudes of the Third Bhava Point and Fourth Bhava Point by two, we will get the longitude of the Beginning of the Fourth Bhava. Similary if we divide the sum of the longitudes of the Fourth Bhava Point and the Fifth Bhava Point we well get the longitude of the End of the Fourth Bhava Point. Therefore the longitude of the End of the Fourth Bhava Point is $=\frac{(259°\text{-}22'\text{-}06'')+(289°\text{-}40'\text{-}26'')}{2}$ $=\frac{549°\text{-}02'\text{-}32''}{2}=274°\text{–}31'\text{–}16''$. In general terms, the longitude of the Aramba Sandhi (*i.e.* the Beginning) of a particular Bhava is half the sum of the longitude of that particular Bhava Point and the immediately preceding Bhava Point. The longitude of Virama Sandhi (*i.e.* the End) of a particular Bhava is half the sum of the longitudes of that particular Bhava Point and the immediately succeeding Bhava Point.

ITEM No. 18 :—

Example No. 24 :—The Nirayana Longitudes of the several Indian Bhavas Points are given below. Calculate the longitudes of the Beginning and the End of the Several Indian Bhavas.

No. of the Bhava Point	Nirayana Longitude of the Bhava Point	No. of the Bhava Point	Nirayana Longitude of the Bhava Point
	° ′ ″		° ′ ″
1	170–17–06	7	350–17–06
2	199–58–46	8	19–58–46
3	229–40–26	9	49–40–26
4	259–22–06	10	79–22–06
5	289–40–26	11	109–40–26
6	319–58–46	12	139–58–46

Bhava Point Number	1 ° ′ ″	2 ° ′ ″	3 ° ′ ″	4 ° ′ ″	5 ° ′ ″	6 ° ′ ″	
Nirayana Longitude of Bhava Point	170–17–06	199–58–46	229–40–26	259–22–06	289–40–26	319–58–46	(1)
Nirayana Longitude of the Preceding Bhava Point	139–58–46	170–17–06	199–58–46	229–40–26	259–22–06	289–40–26	(2)
Sum of (1) and (2)	310–15–52	370–15–52	429–39–12	489–02–32	549–02–32	609–39–12	(3)
Half of (3) is the Nirayana Longiiude or the Beginning of the Bhava against(A)	155–17–56	185–07–56	214–49–36	244–31–16	274–31–16	304–49–36	(4)
Bhava Number	(1)	(2)	(3)	(4)	(5)	(6)	(A)

Bhava Point Number	7 ° ′ ″	8 ° ′ ″	9 ° ′ ″	10 ° ′ ″	11 ° ′ ″	12 ° ′ ″	
Nirayana Longitude of Bhava Point	350–17–06	19–58–46 or379–58–46	49–40–26	79–22–06	109–40–26	139–58–46	(1)
Nirayana Longitude of the Preceding Bhava Point	319–58–46	370–17–06	19–58–46	49–40–26	79–22–06	109–40–26	(2)
Sum of (1) and (2)	670–15–52	730–15–52	69–39–12	129–02–32	189–02–32	249–39–12	(3)
Half of (3) is the Nirayana Longitude of the Beginning of the Bhava against(A)	335–07–56	365–07–56 or 5–07–56	34–49–36	64–31–16	94–31–16	124–49–36	(4)
Bhava Number	(7)	(8)	(9)	(10)	(11)	(12)	(A)

As the beginning of one Bhava is the end of the Previous Bhava, we need not separately calculate the Ends of the sevaral Bhavas We see also that the longitudes under numbers (7) to (12) differ respectively from the longitudes of numbers (1) to (6) by only 180°. So, if we calculate the longitudes of the Beginning of the Bhavas 1 to 6, we can easily get the longitudes of the beginning of the Bhavas 7 to 12 by adding 180° to the longitudes of the beginning of the Bhavas 1 to 6 respectively. We shall now arrange our results as follows and show the longitudes of the Beginning and End of Bhava Points.

No. of the Indian Bhava	Nirayana Longitudes of the		
	Beginning of the Bhava	Bhava Point	End of the Bhava
	° ′ ″	° ′ ″	° ′ ″
1	155–07–56	170–17–06	185–07–56
2	185–07–56	199–58–46	214–49–36
3	214–49–36	229–40–26	244–31–16
4	244–31–16	259–22–06	274–31–16
5	274–31–16	289–40–26	304–49–31
6	304–49–36	319–58–46	335–07–56
7	335–07–56	350–17–06	5–07–56
8	5–07–56	19–58–46	34–49–36
9	34–49–36	49–40–26	64–31–16
10	64–31–16	79–22–06	94–31–16
11	94–31–16	109–40–26	124–49–36
12	124–49–36	139–58–46	155–07–56

SECTION IV

FOR SOUTHERN LATITUDES.

ITEM No. 19 :—To calculate the Udaya Lagna and the Dasama Lagna for the required moment at the required place which has a South Latitude.

We have to proceed as follows :—

(1) First find the Siderial Time H at the given place for the required moment by following the General Method or the methods given in Section I or II. Then add 12 hours to this. If the total exceeds 24 hrs. subtract twenty four hours from the total and get the result as W.

(2) Then imagine that the place has exactly the same Northern Latitude and find the Udaya Lagna and Dasama Lagna for this imagined northern latitude for the calculated Siderial Time of W by following the method given in Section III.

(3) Then add 180° to the calculated Udaya Lagna and the calculated Dasama Lagna and the result will give in Tropical Longitude the required Udaya Lagna and the required Dasama Lagna for the required place with South Latitude and for the required moment.

(4) If we now repeat the methods given in items Nos. 11 to 18 we can get the European Bhava Chakra (or European Map) and the Indian Bhava Chakra for the required moment for the required place having the South Latitude.

ITEM No. 20 :— I shall illustrate briefly the several stages by taking a concrete Example.

Example No. 25 :—Calculate the Udaya Lagna and the Dasama Lagna for a place P whose latitude is 13°–04′ South for a required moment when the Siderial Time (H) as calculated according to Section II for that place P is 18 hrs. 52 m. 40 sds on 7-5-1930 A. D. :—

Now imagine 13°–04″ South as 13°–04′ North as per instruction 2 of Item No. 19,

		Hrs. ms. sds.
The calculated Siderial Time H	=	18–52–40
Add 12 hrs. as per rule (1) of Item No. 19,	=	12–00–00
Total ...	=	30–52–40
As 30hrs. is more than 24hrs., substract 24hrs.	=	24–00–00
We have W as per rule (1) of Item No. 19.	=	6–52–40

For 6 hrs. 52 ms. 40 sds. theTropical longitude of Udaya Lagna calculated by following the method given in Part A of Section III is } =193-01-36(1)

Add 180° as per rule (3) of Item 19 =180–00–00(2)

Adding (1) & (2) we have the Tropical longitude of the required Udaya Lagna } =373–01–36(3)

or = 13–01–36 by subtracting 360°

or = 13–02.

∴ So the required Tropical longitude of the Udaya Lagna at the place whose latitude is 13°–04′ South for the Siderial Time of 18 hrs. 52 m. 40 sds. on 7-5-1930 A. D. is 13°–01′–36′ or 13°–02′ Answer.

Similarly.

For 6 hrs. 52 ms. 40 sds. the Tropical Longitude of calculated Dasama Lagna by following the method given in Part B of Section III is } =102–07–00 (4)

Add 180° as per rule (3) of item No. 19. =180–00–00 (5)

Adding (4) and (5) we have the Tropical longitude of the required Dasama Lagna } =282–07–00 (6)

So the required Tropical longitude of the Dasama Lagna at the place whose latitude is 13°–04′ South for the Siderial Time of 18 hrs. 52 ms. 40 sds. on 7-5-1930 A. D. is 282°–07′–00. Answer.

Having thus calculated the Tropical longitudes of the Udaya Lagna and the Dasama Lagna, proceed exactly as in items Nos. 14 (a) to (18).

TABLES:—*1*, & *2*—வாக்கியங்கள்:—1-ம், 2-ம்.

Table 1. To find the number of mean time hours after Noon (*M I.*) மத்தியானத்திற்குப் பிறகு செல்லான கெடியார மணி காலம் அறிய		*Table 2.* To find the number of mean time hours after Midnight (*M I.*) நடு இரவிற்கு பிறகு செல்லான கெடியார மணி காலம் அறிய	
Clock Time காலம் கெடியார மணி	Number of hours of mean time கெடியார மணியின் எண்	Clock Time காலம் கெடியார மணி	Number of hours of mean time கெடியார மணியின் எண்
12 Noon மத்யானம்	0	12 Midnight நடு இரவு	0
1 P M பி.எம்.	1	1 A. M. எ. எம்.	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12 Midnight நடு இரவு	12	12 Noon மத்யானம்	12
1 A.M. எ. எம்.	13	1 P. M. பி. எம்	13
2	14	2	14
3	15	3	15
4	16	4	16
5	17	5	17
6	18	6	18
7	19	7	19
8	20	8	20
9	21	9	21
10	22	10	22
11	23	11	23

TABLE:—3. —வாக்கியம்:—3.

Correction (L. C.) for difference in Longitude (*ie.*) Longitude Correction.

ரேகாம்ச வித்தியாசத்திற்காகத் திருத்தம். அதாவது ரேகாம்ச திருத்தம் (ரே. தி.)

Degrees. பாகைகள்.		Minutes of arc. கலைகள்.		Seconds of arc. விகலைகள்.	
Longitude in degrees ரேகாம்சபாகை	Siderial Interval in Seconds நட்சத்திர ஹோராகால சக்கண்டு	Longitude in Minutes of arc ரேகாம்சகலை	Siderial Interval in Seconds of time நட்சத்திர ஹோரா கால சக்கண்டு	Longitude in Seconds of arc ரேகாம்சவிகலை	Siderial Interval in Seconds of time நட்சத்திர ஹோரா கால சக்கண்டு
°	Sds.	′	Sds.	″	Sds.
0	00·00	0	00·000	0	00·000
1	00·66	1	00·011	1	00·000
2	01.31	2	00 022	2	00·000
3	01·97	3	00·033	3	00·001
4	02·63	4	00·044	4	00 001
5	03·29	5	00·055	5	00·001
6	03·94	6	00·066	6	00·001
7	04·60	7	00·077	7	00·001
8	05·26	8	00·088	8	00·001
9	05·91	9	00 099	9	00·002
10	06·57	10	00·110	10	00·002
20	13·14	20	00·220	20	00·004
30	19·71	30	00·330	30	00·005
40	26·28	40	00 440	40	00·007
50	32·85	50	00·550	50	00·009
60	39·43	60	00·660	60	00·011
70	46·00				
80	52·57				
90	59·14				
100	65·71				

Table:—4—வாக்கியம்:—4

Table for finding the interval of Siderial Time *(S.I)* *(ie* Siderial Interval for a given interval of Mean Solar (*ie* clock) Time *(M.I)*

குறித்த கெடியார காலத்திற்குச் (கெ.கா) சமானமான நட்சத்திர ஹோராதி காலம் (ந. கா) அறிய

HOURS. மணிகள்.				MINUTES. நிமிஷங்கள்.					
In clock time கெடியார மணி	Siderial Interval நட்சத்திர ஹோராதி கால			In clock time கெடியார நிமி	Siderial Interval நட்சத்திர ஹோராதி கால		In clock time கெடியார நிமி	Siderial Interval நட்சத்திர ஹோராதிகால	
Hrs. மணி	Hrs. மணி	Ms. நிமி	Sds. சக்கண்	Ms. நிமிஷம்	Ms. நிமிஷம்	Sds. சக்கண்	Ms. நிமிஷம்	Ms. நிமிஷம்	Sds. சக்கண்
01	01	00	09·856	01	01	00·164	31	31	05·093
02	02	00	19·713	02	02	00·329	32	32	05·257
03	03	00	29·569	03	03	00·493	33	33	05·421
04	04	00	39·426	04	04	00·657	34	34	05·585
05	05	00	49·282	05	05	00·821	35	35	05·750
06	06	00	59·139	06	06	00·986	36	36	05·914
07	07	01	08·995	07	07	01·150	37	37	06·078
08	08	01	18·852	08	08	01·314	38	38	06·242
09	09	01	28·708	09	09	01·478	39	39	06·407
10	10	01	38·565	10	10	01·643	40	40	06·571
11	11	01	48·421	11	11	01·807	41	41	06·735
12	12	01	58·278	12	12	01·971	42	42	06·900
13	13	02	08·134	13	13	02·136	43	43	07·064
14	14	02	17·991	14	14	02·300	44	44	07·228
15	15	02	27·847	15	15	02·464	45	45	07·392
16	16	02	37·704	16	16	02.628	46	46	07·557
17	17	02	47·560	17	17	02·793	47	47	07·721
18	18	02	57·417	18	18	02·957	48	48	07·885
19	19	03	07·273	19	19	03·121	49	49	08 049
20	20	03	17·129	20	20	03·285	50	50	08·214
21	21	03	26·986	21	21	03·450	51	51	08·378
22	22	03	36·842	22	22	03·614	52	52	08·542
23	23	03	46·699	23	23	03.778	53	53	08·707
24	24	03	56·555	24	24	03.943	54	54	08·871
				25	25	04.107	55	55	09·035
				26	26	04·271	56	56	09·199
				27	27	04·435	57	57	09·364
				28	28	04·600	58	58	09·528
				29	29	04·764	59	59	09·692
				30	30	04·928	60	60	09·856

TABLE 4 (Contd.)—வாக்கியம் 4 (தொடர்ச்சி)

SECONDS. சக்கண்டுகள்.					
In clock time seconds கடியாரசக்கண்டு	Siderial Interval Sds. நட்சத்திர ஹோராநி கால சக்கண்டு	In clock time seconds கடியாரசக்கண்டு	Siderial Interval Sds. நட்சத்திர ஹோராநி கால சக்கண்டு	In clock time seconds கடியாரசக்கண்டு	Siderial Interval Sds. நட்சத்திர ஹோராநி கால சக்கண்டு.
01	01·003	21	21·057	41	41·112
02	02·005	22	22·060	42	42·115
03	03·008	23	23·063	43	43·118
04	04·011	24	24·066	44	44·120
05	05·014	25	25·068	45	45·123
06	06·016	26	26·071	46	46·126
07	07·019	27	27·074	47	47·129
08	08·022	28	28·077	48	48·131
09	09·025	29	29·079	49	49·134
10	10·027	30	30·082	50	50·137
11	11·030	31	31·085	51	51·140
12	12·033	32	32·088	52	52·142
13	13·036	33	33·090	53	53·145
14	14·038	34	34·093	54	54·148
15	15·041	35	35·096	55	55·151
16	16·044	36	36·099	56	56·153
17	17·047	37	37·101	57	57·156
18	18·049	38	38·104	58	58·159
19	19·052	39	39·107	59	59·162
20	20·055	40	40·110	60	60·164

TABLE 5.—வாக்கியம் 5.

Table for Converting degrees, Minutes & Seconds of arc into time
(*ie* Local Mean Time Correction or briefly Local Correction D.)

பாகை, கலை, விகலை இவைகளுக்குச் சமானமான மணி, நிமிஷம், சக்கண்டுகள் சுதேச திருத்தம் (சு. தி)

DEGREES. பாகைகள்.

Degree பாகை	Time Hrs. மணி	Time Ms. நிமி	Degree பாகை	Time Hrs. மணி	Time Ms. நிமி	Degree பாகை	Time Hrs. மணி	Time Ms. நிமி	Degree பாகை	Time Hrs. மணி	Time Ms. நிமி.
0°	0	00	°28	1	52	°56	3	44	84°	5	36
1	0	04	29	1	56	57	3	48	85	5	40
2	0	08	30	2	00	58	3	52	86	5	44
3	0	12	31	2	04	59	3	56	87	5	48
4	0	16	32	2	08	60	4	00	88	5	52
5	0	20	33	2	12	61	4	04	89	5	56
6	0	24	34	2	16	62	4	08	90	6	00
7	0	28	35	2	20	63	4	12	91	6	04
8	0	32	36	2	24	64	4	16	92	6	08
9	0	36	37	2	28	65	4	20	93	6	12
10	0	40	38	2	32	66	4	24	94	6	16
11	0	44	39	2	36	67	4	28	95	6	20
12	0	48	40	2	40	68	4	32	96	6	24
13	0	52	41	2	44	69	4	36	97	6	28
14	0	56	42	2	48	70	4	40	98	6	32
15	1	00	43	2	52	71	4	44	99	6	36
16	1	04	44	2	56	72	4	48	100	6	40
17	1	08	45	3	00	73	4	52	101	6	44
18	1	12	46	3	04	74	4	56	102	6	48
19	1	16	47	3	08	75	5	00	103	6	52
20	1	20	48	3	12	76	5	04	104	6	56
21	1	24	49	3	16	77	5	08	105	7	00
22	1	28	50	3	20	78	5	12	106	7	04
23	1	32	51	3	24	79	5	16	107	7	08
24	1	36	52	3	28	80	5	20	108	7	12
25	1	40	53	3	32	81	5	24	109	7	16
26	1	44	54	3	36	82	5	28	110	7	20
27	1	48	55	3	40	83	5	32	111	7	24

TABLE 5 (Contd.)—வாக்கியம் 5 (தொடர்ச்சி)

DEGREES. பாகைகள்.								
Degree. பாகை.	Time		Degree. பாகை.	Time		Degree. பாகை.	Time	
	Hrs. மணி.	Ms. நிமிஷம்.		Hrs. மணி.	Ms. நிமிஷம்.		Hrs. மணி.	Ms. நிமிஷம்
112	7	28	135	9	00	158	10	32
113	7	32	136	9	04	159	10	36
114	7	36	137	9	08	160	10	40
115	7	40	138	9	12	161	10	44
116	7	44	139	9	16	162	10	48
117	7	48	140	9	20	163	10	52
118	7	52	141	9	24	164	10	56
119	7	56	142	9	28	165	11	00
120	8	00	143	9	32	166	11	04
121	8	04	144	9	36	167	11	08
122	8	08	145	9	40	168	11	12
123	8	12	146	9	44	169	11	16
124	8	16	147	9	48	170	11	20
125	8	20	148	9	52	171	11	24
126	8	24	149	9	56	172	11	28
127	8	28	150	10	00	173	11	32
128	8	32	151	10	04	174	11	36
129	8	36	152	10	08	175	11	40
130	8	40	153	10	12	176	11	44
131	8	44	154	10	16	177	11	48
132	8	48	155	10	20	178	11	52
133	8	52	156	10	24	179	11	56
134	8	56	157	10	28	180	12	00

TABLE 5. (contd):—வாக்கியம் 5. (தொடர்ச்சி)

Minutes of arc. கலைகள்.						*Seconds of arc.* விகலைகள்.			
Ms. of arc கலை	Time		Ms. of arc கலை	Time		Sds. of arc விகலைகள்	Time in Seconds சக்கண்டு	Sds. of arc விகலைகள்.	Time in Seconds சக்கண்டு
	Ms. கலை	Sds. நிமி		Ms. கலை	Sds நிமி				
0′	0	00	31′	2	04	0′	0·000	31	2·067
1	0	04	32	2	08	1	0·067	32	2·133
2	0	08	33	2	12	2	0·133	33	2·200
3	0	12	34	2	16	3	0·200	34	2·267
4	0	16	35	2	20	4	0·267	35	2·333
5	0	20	36	2	24	5	0·333	36	2·400
6	0	24	37	2	28	6	0·400	37	2·467
7	0	28	38	2	32	7	0·467	38	2·533
8	0	32	39	2	36	8	0·533	39	2·600
9	0	36	40	2	40	9	0·600	40	2·667
10	0	40	41	2	44	10	0·667	41	2·733
11	0	44	42	2	48	11	0·733	42	2·800
12	0	48	43	2	52	12	0·800	43	2·867
13	0	52	44	2	56	13	0·867	44	2·933
14	0	56	45	3	00	14	0·933	45	3·000
15	1	00	46	3	04	15	1·000	46	3·067
16	1	04	47	3	08	16	1·067	47	3·133
17	1	08	48	3	12	17	1·133	48	3·200
18	1	12	49	3	16	18	1·200	49	3·267
19	1	16	50	3	20	19	1·267	50	3·333
20	1	20	51	3	24	20	1·333	51	3·400
21	1	24	52	3	28	21	1·400	52	3.467
22	1	28	53	3	32	22	1·467	53	3.533
23	1	32	54	3	36	23	1·533	54	3.600
24	1	36	55	3	40	24	1·600	55	3.667
25	1	40	56	3	44	25	1·667	56	3.733
26	1	44	57	3	48	26	1·733	57	3·800
27	1	48	58	3	52	27	1·800	58	3·867
28	1	52	59	3	56	28	1.867	59	3·933
29	1	56	60	4	00	29	1·933	60	4·000
30	2	00				30	2·000		

TABLE 6.—வாக்கியம் 6.

Name of the Country etc, தேசத்தின் பெயர் முதலியன	Time difference (T.D.) கெடியார மணி வித்தியாசம்.			Longitudeof the place "S" "எஸ்" என்ற இடத்தின் ரேகாம்சம்.		
	Hrs. மணி.	Ms. நிமி	Sds. சக்க.	Deg. பாகை	Ms. கலை	Sds. விகலை.
1. India (except Calcutta) 1. இந்தியா (கல்கத்தா தவிற)	+5	30	00	82	30	00E
2. Portuguese India 2. போர்ச்சுக்கார இந்தியா	+5	30	00	82	30	00,,
3. Ceylon 3. சிலோன் (இலங்கை)	+5	30	00	82	30	00,,
4. Laccadive Islands 4. லக்ஷத்தீவுகள்	+5	30	00	82	30	00,,
5. Calcutta 5. கல்கத்தா	+5	53	20·08	88	20	12,,
6. Burma 6. பர்மா	+6	00	00	90	00	00,,
7. Siam 7. சையாம்	+7	00	00	105	00	00,,
8. Straits Settlements 8. ஸ்ரெயிட்ஸ் செட்டில் மெண்டு	+7	00	00	105	00	00,,
9. Federated Malay States 9. பெடரேட்டடு மலையா ஸ்டேட்ஸ்	+7	00	00	105	00	00,,
10 Mauritius 10. மொருசிஷ்	+4	00	00	60	00	00,,
11. Union of South Africa 11. தென் ஆப்பிரிகா யூனியன்	+2	00	00	30	00	00,,

TABLE 7.—வாக்கியம் 7.

Ayanamsa for years from 1840A.D. to 2000A.D.

1840கி.பி. வரு முதல் 2000கி.பி. வரு வரையிலும் அயனம்சம்.

(1) Ayanamsa=(22°–40′–39″) ± *a*.

(1) அயனம்சம்=(22°–40′–39″) ± எ.

Rate of precession from 1800A.D. to 2000A.D.=0°–0′–50″,

வருஷ அயன சலன கதி=0°–0′–50″.

Year A. D. வருஷம் இ. பி.	Ayanamsa *a* அயனம்சம் எ.			Year A. D. வருஷம் இ. பி.	Ayanamsa *a* அயனம்சம் எ.			Year A. D. வருஷம் இ. பி.	Ayanamsa *a* அயனம்சம் எ.		
A. D.	°	′	″	A. D.	°	′	″	A. D.	°	′	″
1840	1	11	12	1867	0	48	34	1894	0	25	58
1841	1	10	22	1868	0	47	44	1895	0	25	08
1842	1	9	31	1869	0	46	54	1896	0	24	18
1843	1	8	41	1870	0	46	03	1897	0	23	27
1844	1	7	51	1871	0	45	13	1898	0	22	37
1845	1	7	00	1872	0	44	23	1899	0	21	47
1846	1	6	10	1873	0	43	33	1900	0	20	57
1847	1	5	20	1874	0	42	42	1901	0	20	06
1848	1	4	30	1875	0	41	52	1902	0	19	16
1849	1	3	39	1876	0	41	03	1903	0	18	26
1850	1	2	49	1877	0	40	12	1904	0	17	35
1851	1	1	59	1878	0	39	22	1905	0	16	45
1852	1	1	09	1879	0	38	32	1906	0	15	56
1853	1	0	18	1880	0	37	42	1907	0	15	05
1854	0	59	28	1881	0	36	51	1908	0	14	15
1855	0	58	38	1882	0	36	01	1909	0	13	25
1856	0	57	48	1883	0	35	11	1910	0	12	35
1857	0	56	57	1884	0	34	20	1911	0	11	44
1858	0	56	07	1885	0	33	30	1912	0	10	54
1859	0	55	17	1886	0	32	41	1913	0	10	04
1860	0	54	27	1887	0	31	50	1914	0	9	13
1861	0	53	36	1888	0	31	00	1915	0	8	23
1862	0	52	46	1889	0	30	10	1916	0	7	33
1863	0	51	56	1890	0	29	20	1917	0	6	42
1864	0	51	05	1891	0	28	29	1918	0	5	52
1865	0	50	15	1892	0	27	39	1919	0	5	02
1866	0	49	25	1893	0	26	49	1920	0	4	12

TABLE 7 (Contd.)—வாக்கியம் 7 (தொடர்ச்சி.)

Year A. D. வருஷம் இ. பி.	Ayanamsa அயனம் சம்		எ.	Year A. D. வருஷம் இ. பி.	Ayanamsa அயனம் சம்		எ.	Year A. D. வருஷம் இ. பி.	Ayanamsa அயனம் சம்		எ.
A. D.	°	′	″	A. D.	°	′	″	A. D.	°	′	″
1921	0	3	21	1948	0	19	16	1975	0	41	53
1922	0	2	31	1949	0	20	06	1976	0	42	43
1923	0	1	41	1950	0	20	57	1977	0	43	34
1924	0	0	50	1951	0	21	47	1978	0	44	24
1925	0	0	00	1952	0	22	37	1979	0	45	14
1926	0	0	50	1953	0	23	27	1980	0	46	04
1927	0	1	41	1954	0	24	18	1981	0	46	55
1928	0	2	31	1955	0	25	08	1982	0	47	45
1929	0	3	21	1956	0	25	58	1983	0	48	35
1930	0	4	12	1957	0	26	49	1984	0	49	26
1931	0	5	02	1958	0	27	39	1985	0	50	16
1932	0	5	52	1959	0	28	29	1986	0	51	06
1933	0	6	42	1960	0	29	20	1987	0	51	57
1934	0	7	33	1961	0	30	10	1988	0	52	47
1935	0	8	23	1962	0	31	00	1989	0	53	37
1936	0	9	13	1963	0	31	50	1990	0	54	28
1937	0	10	04	1964	0	32	41	1991	0	55	18
1938	0	10	54	1965	0	33	31	1992	0	56	08
1939	0	11	44	1966	0	34	21	1993	0	56	58
1940	0	12	35	1967	0	35	12	1994	0	57	49
1941	0	13	25	1968	0	36	02	1995	0	58	39
1942	0	14	15	1969	0	36	52	1996	0	59	29
1943	0	15	05	1970	0	37	43	1997	1	0	19
1944	0	15	56	1971	0	38	33	1998	1	1	10
1945	0	16	45	1972	0	39	23	1999	1	2	00
1946	0	17	35	1973	0	40	13	2000	1	2	50
1947	0	18	26	1974	0	41	04				

N. B:—To Calculate the Ayanamsa for years after 2000 A.D. please use the method given in my Raja Jyothida Ganitham.

இ. பி. 2000வருத்திற்கு மேற்பட்ட வருஷங்களுக்கு அயனம் சம் கணிக்க என்னுடைய இராஜ ஜோதிடகணிதம் என்ற புத்தகத்தை உபயோகப்படுத்தவும்.

TABLE 8.—வாக்கியம் 8.

Increase of Ayanamsa for odd days=*b* (to the second of arc.)
சொச்ச தினங்களுக்குரிய அயனம்சம்=பி (விகலையில்.)

Days. நாள்கள்.	b. பி.	Days. நாள்கள்.	b. பி.	Days. நாள்கள்.	b. பி.	Days. நாள்கள்.	b. பி.	Days. நாள்கள்.	b. பி.
	"		"		"		"		"
0	0·0	5	0·7	10	1·4	60	8·2	200	27·4
1	0·1	6	0·8	20	2·7	70	9·6	300	41·1
2	0·3	7	1·0	30	4·1	80	11·0		
3	0·4	8	1·1	40	5·5	90	12·3		
4	0·5	9	1·2	50	6·8	100	13·7		

TABLE 9. Latitude Degree 0 North.
வாக்கியம் 9. அகூலாம்சம் பாகை 0 வடக்கு

Astrological Table of Lagna (*ie* Udaya Lagna or Ascendant) and Other Bhavas (*ie* Houses) in Tropical Longitude
ஜாதக லக்கினஸ்புடமும் மற்றப் பாவங்களின் ஸ்புடமும் (சாயனம்)

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	90	00	0	00	5	48	176	44	87	15
0	12	92	45	3	16	6	00	180	00	90	00
0	24	95	30	6	32	6	12	183	16	92	45
0	36	98	16	9	48	6	24	186	32	95	30
0	48	101	02	13	03	6	36	189	47	98	16
1	00	103	48	16	17	6	48	193	03	101	02
1	12	106	35	19	30	7	00	196	17	103	49
1	24	109	24	22	43	7	12	199	29	106	36
1	36	112	13	25	53	7	24	202	42	109	24
1	48	115	06	29	03	7	36	205	52	112	13
2	00	117	55	32	11	7	48	209	03	115	03
2	12	120	47	35	18	8	00	212	11	117	55
2	24	123	42	38	23	8	12	215	17	120	47
2	36	126	36	41	26	8	24	218	22	123	41
2	48	129	34	44	28	8	36	221	26	126	37
3	00	132	32	47	28	8	48	224	28	129	33
3	12	135	32	50	27	9	00	227	28	132	32
3	24	138	34	53	23	9	12	230	26	135	32
3	36	141	38	56	19	9	24	233	24	138	34
3	48	144	43	59	13	9	36	236	18	141	37
4	00	147	49	62	05	9	48	239	13	144	42
4	12	150	57	64	57	10	00	242	05	147	49
4	24	154	08	67	47	10	12	244	54	150	57
4	36	157	18	70	36	10	24	247	47	154	07
4	48	160	31	73	24	10	36	250	36	157	17
5	00	163	43	76	11	10	48	253	25	160	30
5	12	166	57	78	58	11	00	256	12	163	43
5	24	170	13	81	44	11	12	258	58	166	57
5	36	173	28	84	30	11	24	261	44	170	12

TABLE 9. (Contd.) Latitude Degree 0 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 0 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
11	36	264	30	173	28	18	00	360	00	270	00
11	48	267	15	176	44	18	12	3	16	272	45
12	00	270	00	180	00	18	24	6	32	275	30
12	12	272	45	183	16	18	36	9	47	278	16
12	24	275	30	186	32	18	48	13	03	281	02
12	36	278	16	189	48	19	00	16	17	283	49
12	48	281	02	193	03	19	12	19	30	286	36
13	00	283	48	196	17	19	24	22	42	289	24
13	12	286	35	199	30	19	36	25	53	292	13
13	24	289	24	202	43	19	48	29	03	295	03
13	36	292	13	205	53	20	00	32	11	297	55
13	48	295	04	209	03	20	12	35	18	300	47
14	00	297	54	212	11	20	24	38	21	303	41
14	12	300	47	215	18	20	36	41	26	306	37
14	24	303	42	218	23	20	48	44	27	309	33
14	36	306	36	221	26	21	00	47	28	312	32
14	48	309	34	224	28	21	12	50	26	315	32
15	00	312	32	227	28	21	24	53	24	318	34
15	12	315	33	230	27	21	36	56	18	321	37
15	24	318	34	233	23	21	48	59	13	324	42
15	36	321	39	236	19	22	00	62	06	327	49
15	48	324	42	239	13	22	12	64	56	330	57
16	00	327	49	242	05	22	24	67	47	334	07
16	12	330	57	244	57	22	36	70	36	337	17
16	24	334	07	247	47	22	48	73	25	340	30
16	36	337	18	250	36	23	00	76	12	343	43
16	48	340	30	253	24	23	12	78	58	346	57
17	00	343	43	256	11	23	24	81	44	350	12
17	12	346	57	258	58	23	36	84	30	353	28
17	24	350	13	261	44	23	48	87	15	356	44
17	36	353	28	264	30	24	00	90	00	360	00
17	48	356	44	267	15						

TABLE 9. (*Contd.*) Latitude Degree 1 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 1 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	90	24	0	00	6	12	183	15	92	45
0	12	93	09	3	16	6	24	186	29	95	30
0	24	95	54	6	32	6	36	189	43	98	16
0	36	98	40	9	48	6	48	192	57	101	02
0	48	101	26	13	03	7	00	194	10	103	49
1	00	104	12	16	17	7	12	199	21	106	36
1	12	106	59	19	30	7	24	202	33	109	24
1	24	109	46	22	43	7	36	205	42	112	13
1	36	112	36	25	53	7	48	208	50	115	03
1	48	115	26	29	03	8	00	211	58	117	55
2	00	118	16	32	11	8	12	215	03	120	47
2	12	121	08	35	18	8	24	218	07	123	41
2	24	124	02	38	23	8	36	221	09	126	37
2	36	126	57	41	26	8	48	224	10	129	33
2	48	129	53	44	28	9	00	227	10	132	32
3	00	132	50	47	28	9	12	230	07	135	32
3	12	135	50	50	27	9	24	233	03	138	34
3	24	138	51	53	23	9	36	235	58	141	37
3	36	141	53	56	19	9	48	238	52	144	42
3	48	144	57	59	13	10	00	241	44	147	49
4	00	148	02	62	05	10	12	244	34	150	57
4	12	151	10	64	57	10	24	247	24	154	07
4	24	154	18	67	47	10	36	250	14	157	17
4	36	157	27	70	36	10	48	253	01	160	30
4	48	160	39	73	24	11	00	255	48	163	43
5	00	165	50	76	11	11	12	258	34	166	57
5	12	167	03	78	58	11	24	261	20	170	12
5	24	170	17	81	44	11	36	264	06	173	28
5	36	173	31	84	30	11	48	266	51	176	44
5	48	176	45	87	15	12	00	269	36	180	00
6	00	180	00	90	00	12	12	272	22	183	16

TABLE 9. (Contd.) Latitude Degree **1** North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **1** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	274	44	186	32	18	24	6	35	275	30
12	36	277	53	189	48	18	36	9	53	278	16
12	48	280	38	193	03	18	48	13	08	281	02
13	00	283	25	196	17	19	00	16	25	283	49
13	12	286	13	199	30	19	12	19	39	286	36
13	24	289	01	202	43	19	24	22	52	289	24
13	36	291	22	205	53	19	36	26	05	292	13
13	48	294	42	209	03	19	48	29	15	295	03
14	00	297	33	212	11	20	00	32	25	297	55
14	12	300	26	215	18	20	12	35	32	300	47
14	24	303	21	218	23	20	24	38	38	303	41
14	36	306	17	221	26	20	36	41	43	306	37
14	48	309	14	224	28	20	48	44	46	309	33
15	00	312	14	227	28	21	00	47	46	312	32
15	12	315	14	230	27	21	12	50	46	315	32
15	24	318	17	233	23	21	24	53	43	318	34
15	36	321	22	236	19	21	36	56	39	321	37
15	48	324	28	239	13	21	48	59	34	324	42
16	00	327	35	242	05	22	00	62	27	327	49
16	12	330	45	244	57	22	12	65	18	330	57
16	24	333	55	247	47	22	24	68	38	334	07
16	36	337	08	250	36	22	36	70	59	337	17
16	48	340	21	253	24	22	48	73	47	340	30
17	00	343	35	256	11	23	00	76	35	343	43
17	12	346	52	258	58	23	12	79	22	346	57
17	24	350	07	261	44	23	24	82	07	350	12
17	36	353	25	264	30	23	36	85	16	353	28
17	48	356	43	267	15	23	48	87	38	356	44
18	00	360	00	270	00	24	00	90	24	360	00
18	12	3	17	272	45						

TABLE 9. (*Contd.*) Latitude Degree 2 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 2 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	90	47	0	00	6	12	183	13	92	45
0	12	93	33	3	16	6	24	186	26	95	30
0	24	96	17	6	32	6	36	189	39	98	16
0	36	99	03	9	48	6	48	192	51	101	02
0	48	101	49	13	03	7	00	196	03	103	49
1	00	104	34	16	17	7	12	199	13	106	36
1	12	107	22	19	30	7	24	202	23	109	24
1	24	110	09	22	43	7	36	205	31	112	13
1	36	112	58	25	53	7	48	208	38	115	03
1	48	115	47	29	03	8	00	211	44	117	55
2	00	118	37	32	11	8	12	214	49	120	47
2	12	121	29	35	18	8	24	217	52	123	41
2	24	124	21	38	23	8	36	220	53	126	37
2	36	127	15	41	26	8	48	223	54	129	33
2	48	130	11	44	28	9	00	226	52	132	32
3	00	133	08	47	28	9	12	229	49	135	32
3	12	136	06	50	27	9	24	232	45	138	34
3	24	139	07	53	23	9	36	235	39	141	37
3	36	142	08	56	19	9	48	238	31	144	42
3	48	145	11	59	13	10	00	241	23	147	49
4	00	148	16	62	05	10	12	244	13	150	57
4	12	151	22	64	57	10	24	247	02	154	07
4	24	154	29	67	47	10	36	249	51	157	17
4	36	157	37	70	36	10	48	252	38	160	30
4	48	160	47	73	24	11	00	255	26	163	43
5	00	163	57	76	11	11	12	258	11	166	57
5	12	167	09	78	58	11	24	260	57	170	12
5	24	170	21	81	44	11	36	263	43	173	28
5	36	173	34	84	30	11	48	266	27	176	44
5	48	176	47	87	15	12	00	269	13	180	00
6	00	180	00	90	00	12	12	271	57	183	16

TABLE 9. (*Contd.*) Latitude Degree 2 North
வாக்கியம் 9. (தொடர்ச்சி.) அகூரம்சம் பாகை 2 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	274	43	186	32	18	24	6	39	275	30
12	36	277	29	189	48	18	36	9	57	278	16
12	48	280	15	193	03	18	48	13	14	281	02
13	00	283	02	196	17	19	00	16	32	283	49
13	12	285	50	199	30	19	12	19	48	286	36
13	24	288	38	202	43	19	24	23	02	289	24
13	36	290	59	205	53	19	36	26	15	292	13
13	48	294	19	209	03	19	48	29	28	295	03
14	00	297	11	212	11	20	00	32	38	297	55
14	12	300	05	215	18	20	12	35	47	300	47
14	24	303	00	218	23	20	24	38	54	303	41
14	36	305	57	221	26	20	36	41	59	306	37
14	48	308	55	224	28	20	48	45	02	309	33
15	00	311	55	227	28	21	00	48	05	312	32
15	12	314	58	230	27	21	12	51	05	315	32
15	24	318	01	233	23	21	24	54	03	318	34
15	36	321	06	236	19	21	36	57	00	321	37
15	48	324	13	239	13	21	48	59	55	324	42
16	00	327	22	242	05	22	00	62	49	327	49
16	12	330	32	244	57	22	12	65	41	330	57
16	24	333	45	247	47	22	24	69	00	334	07
16	36	336	58	250	36	22	36	71	22	337	17
16	48	340	12	253	24	22	48	74	10	340	30
17	00	343	28	256	11	23	00	76	58	343	43
17	12	346	46	258	58	23	12	79	45	346	57
17	24	350	03	261	44	23	24	82	31	350	12
17	36	353	21	264	30	23	36	85	17	353	28
17	48	356	41	267	15	23	48	88	03	356	44
18	00	360	00	270	00	24	00	90	47	360	00
18	12	3	19	272	45						

TABLE 9. (*Contd.*) Latitude Degree 3 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 3 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	91	11	0	00	6	12	183	12	92	45
0	12	93	56	3	16	6	24	186	23	95	30
0	24	96	41	6	32	6	36	189	34	98	16
0	36	99	27	9	48	6	48	192	45	101	02
0	48	102	12	13	03	7	00	195	56	103	49
1	00	104	58	16	17	7	12	199	05	106	36
1	12	107	44	19	30	7	24	202	14	109	24
1	24	110	31	22	43	7	36	205	21	112	13
1	36	113	20	25	53	7	48	208	26	115	03
1	48	116	08	29	03	8	00	211	32	117	55
2	00	118	58	32	11	8	12	214	34	120	47
2	12	121	49	35	18	8	24	217	37	123	41
2	24	124	41	38	23	8	36	220	38	126	37
2	36	127	35	41	26	8	48	223	37	129	33
2	48	130	30	44	28	9	00	226	34	132	32
3	00	133	26	47	28	9	12	229	30	135	32
3	12	136	23	50	27	9	24	232	25	138	34
3	24	139	22	53	23	9	36	235	19	141	37
3	36	142	23	56	19	9	48	238	11	144	42
3	48	145	26	59	13	10	00	241	02	147	49
4	00	148	28	62	05	10	12	243	52	150	57
4	12	151	34	64	57	10	24	246	40	154	07
4	24	154	39	67	47	10	36	249	29	157	17
4	36	157	46	70	36	10	48	252	16	160	30
4	48	160	55	73	24	11	00	255	02	163	43
5	00	164	04	76	11	11	12	257	48	166	57
5	12	167	15	78	58	11	24	260	33	170	12
5	24	170	26	81	44	11	36	263	19	173	28
5	36	173	37	84	30	11	48	266	04	176	44
5	48	176	48	87	15	12	00	268	49	180	00
6	00	180	00	90	00	12	12	271	27	183	16

TABLE 9. *(Contd.)* Latitude Degree 3 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 3 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	274	18	186	32	18	24	6	41	275	30
12	36	277	05	189	48	18	36	10	00	278	16
12	48	279	44	193	03	18	48	13	21	281	02
13	00	282	38	196	17	19	00	16	39	283	49
13	12	285	27	199	30	19	12	20	01	286	36
13	24	288	16	202	43	19	24	23	12	289	24
13	36	291	06	205	53	19	36	26	27	292	13
13	48	293	57	209	03	19	48	29	41	295	03
14	00	296	50	212	11	20	00	32	52	297	55
14	12	299	44	215	18	20	12	36	02	300	47
14	24	302	40	218	23	20	24	39	11	303	41
14	36	305	36	221	26	20	36	42	17	306	37
14	48	308	35	224	28	20	48	45	21	309	33
15	00	311	36	227	28	21	00	48	24	312	32
15	12	314	39	230	27	21	12	51	25	315	32
15	24	317	43	233	23	21	24	54	24	318	34
15	36	320	49	236	19	21	36	57	20	321	37
15	48	323	58	239	13	21	48	60	16	324	42
16	00	327	08	242	05	22	00	63	10	327	49
16	12	330	19	244	57	22	12	66	03	330	57
16	24	333	33	247	47	22	24	68	54	334	07
16	36	336	48	250	36	22	36	71	44	337	17
16	48	339	59	253	24	22	48	74	33	340	30
17	00	343	21	256	11	23	00	77	22	343	43
17	12	346	39	258	58	23	12	80	16	346	57
17	24	350	00	261	44	23	24	82	55	350	12
17	36	353	19	264	30	23	36	85	42	353	28
17	48	356	40	267	15	23	48	88	33	356	44
18	00	360	00	270	00	24	00	91	11	360	00
18	12	3	20	272	45						

TABLE 9. *(Contd.)* Latitude Degree 4 North.
வாக்கியம் 9. (தொடர்ச்சி). அக்ஷாம்சம் பாகை 4 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	91	34	0	00	6	12	183	11	92	45
0	12	94	20	3	16	6	24	186	21	95	30
0	24	97	05	6	32	6	36	189	31	98	16
0	36	99	49	9	48	6	48	192	40	101	02
0	48	102	35	13	03	7	00	195	49	103	49
1	00	105	21	16	17	7	12	198	56	106	36
1	12	108	07	19	30	7	24	202	04	109	24
1	24	110	53	22	43	7	36	205	10	112	13
1	36	113	41	25	53	7	48	208	15	115	03
1	48	116	29	29	03	8	00	211	18	117	55
2	00	119	19	32	11	8	12	214	21	120	47
2	12	122	09	35	18	8	24	217	22	123	41
2	24	125	01	38	23	8	36	220	22	126	37
2	36	127	53	41	26	8	48	223	54	129	33
2	48	130	48	44	28	9	00	226	17	132	32
3	00	133	43	47	28	9	12	229	12	135	32
3	12	136	06	50	27	9	24	232	07	138	34
3	24	139	38	53	23	9	36	234	59	141	37
3	36	142	38	56	19	9	48	237	51	144	42
3	48	145	39	59	13	10	00	240	41	147	49
4	00	148	42	62	05	10	12	243	31	150	57
4	12	151	45	64	57	10	24	246	19	154	07
4	24	154	50	67	47	10	36	249	07	157	17
4	36	157	56	70	36	10	48	251	53	160	30
4	48	161	04	73	24	11	00	254	39	163	43
5	00	164	11	76	11	11	12	257	25	166	57
5	12	167	20	78	58	11	24	260	11	170	12
5	24	170	29	81	44	11	36	262	55	173	28
5	36	173	39	84	30	11	48	265	40	176	44
5	48	176	49	87	15	12	00	268	26	180	00
6	00	180	00	90	00	12	12	271	10	183	16

TABLE 9. (Contd.) Latitude Degree 4 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 4 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	273	55	186	32	18	24	6	45	275	30
12	36	276	42	189	48	18	36	10	06	278	16
12	48	279	28	193	05	18	48	13	27	281	02
13	00	282	16	196	17	19	00	16	47	283	49
13	12	285	03	199	30	19	12	20	06	286	36
13	24	287	53	202	45	19	24	23	23	289	24
13	36	290	43	205	53	19	36	26	39	292	13
13	48	293	35	209	03	19	48	29	54	295	03
14	00	296	28	212	11	20	00	33	07	297	55
14	12	299	22	215	18	20	12	36	17	300	47
14	24	302	18	218	23	20	24	39	26	303	41
14	36	305	26	221	26	20	36	42	33	306	37
14	48	308	17	224	28	20	48	45	39	309	33
15	00	311	18	227	28	21	00	48	42	312	32
15	12	314	21	230	27	21	12	51	43	315	32
15	24	317	27	233	23	21	24	54	34	318	34
15	36	320	34	236	19	21	36	57	42	321	37
15	48	323	43	239	13	21	48	60	38	324	42
16	00	326	53	242	05	22	00	63	32	327	49
16	12	330	06	244	57	22	12	66	25	330	57
16	24	333	21	247	47	22	24	69	17	334	07
16	36	336	37	250	36	22	36	72	07	337	17
16	48	339	54	253	24	22	48	74	57	340	30
17	00	343	13	256	11	23	00	77	44	343	43
17	12	346	33	258	58	23	12	80	32	346	57
17	24	349	54	261	44	23	24	83	18	350	12
17	36	353	15	264	30	23	36	86	05	353	28
17	48	356	34	267	15	23	48	88	50	356	44
18	00	360	00	270	00	24	00	91	34	360	00
18	12	3	26	272	45						

TABLE 9. (*Contd.*) Latitude Degree 5 North

வாக்கியம் 9. (தொடர்ச்சி.) அகூரூம்சம் பாகை 5 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	91	59	0	00	6	12	183	09	92	45
0	12	94	44	3	16	6	24	186	18	95	30
0	24	97	28	6	32	6	36	189	27	98	16
0	36	100	13	9	48	6	48	192	35	101	02
0	48	102	59	13	03	7	00	195	42	103	49
1	00	105	43	16	17	7	12	198	48	106	36
1	12	108	30	19	30	7	24	201	54	109	24
1	24	111	29	22	43	7	36	204	59	112	13
1	36	114	03	25	53	7	48	208	03	115	03
1	48	116	51	29	03	8	00	211	06	117	55
2	00	119	40	32	11	8	12	214	36	120	47
2	12	122	30	35	18	8	24	217	07	123	41
2	24	125	21	38	23	8	36	220	06	126	37
2	36	128	13	41	26	8	48	223	03	129	33
2	48	131	07	44	28	9	00	225	40	132	32
3	00	134	20	47	28	9	12	228	53	135	32
3	12	136	57	50	27	9	24	231	47	138	34
3	24	139	54	53	23	9	36	234	39	141	37
3	36	142	53	56	19	9	48	237	30	144	42
3	48	145	24	59	13	10	00	240	20	147	49
4	00	148	54	62	05	10	12	243	09	150	57
4	12	151	57	64	57	10	24	245	57	154	07
4	24	155	01	67	47	10	36	248	31	157	17
4	36	158	06	70	36	10	48	251	30	160	30
4	48	161	12	73	24	11	00	254	17	163	43
5	00	164	18	76	11	11	12	257	01	166	57
5	12	167	25	78	58	11	24	259	47	170	12
5	24	170	33	81	44	11	36	262	32	173	28
5	36	173	42	84	30	11	48	265	16	176	44
5	48	176	51	87	15	12	00	268	01	180	00
6	00	180	00	90	00	12	12	270	46	183	16

TABLE 9. (Contd.) Latitude Degree 5 North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 5 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	273	32	186	32	18	24	6	48	275	30
12	36	276	18	189	48	18	36	10	11	278	16
12	48	279	04	193	03	18	48	13	33	281	02
13	00	281	51	196	17	19	00	16	54	283	49
13	12	284	40	199	30	19	12	20	15	286	36
13	24	287	29	202	43	19	24	23	33	289	24
13	36	290	20	205	53	19	36	26	51	292	13
13	48	293	12	209	03	19	48	30	06	295	03
14	00	296	05	212	11	20	00	33	21	297	55
14	12	299	01	215	18	20	12	36	33	300	47
14	24	301	57	218	23	20	24	39	43	303	41
14	36	304	55	221	26	20	36	42	32	306	37
14	48	307	56	224	28	20	48	45	57	309	33
15	00	310	58	227	28	21	00	49	02	312	32
15	12	314	03	230	27	21	12	52	04	315	32
15	24	317	28	233	23	21	24	55	05	318	34
15	36	320	17	236	19	21	36	58	03	321	37
15	48	323	27	239	13	21	48	60	59	324	42
16	00	326	39	242	05	22	00	63	55	327	49
16	12	329	54	244	57	22	12	66	48	330	57
16	24	333	09	247	47	22	24	69	40	334	07
16	36	336	27	250	36	22	36	72	31	337	17
16	48	339	45	253	24	22	48	75	20	340	30
17	00	343	06	256	11	23	00	78	09	343	43
17	12	346	27	258	58	23	12	80	56	346	57
17	24	349	49	261	44	23	24	83	42	350	12
17	36	353	12	264	30	23	36	86	28	353	28
17	48	356	35	267	15	23	48	89	14	356	44
18	00	360	00	270	00	24	00	91	59	360	00
18	12	3	25	272	45						

TABLE 9. (*Contd.*) Latitude Degree **6** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **6** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	92	23	0	00	6	12	183	07	92	45
0	12	95	08	3	16	6	24	186	15	95	30
0	24	97	53	6	32	6	36	189	22	98	16
0	36	100	37	9	48	6	48	192	29	101	02
0	48	103	21	13	03	7	00	195	36	103	49
1	00	106	07	16	17	7	12	198	41	106	36
1	12	108	52	19	30	7	24	201	46	109	24
1	24	111	52	22	43	7	36	204	48	112	13
1	36	114	26	25	53	7	48	207	51	115	03
1	48	117	13	29	03	8	00	210	53	117	55
2	00	120	01	32	11	8	12	213	53	120	47
2	12	122	50	35	18	8	24	216	52	123	41
2	24	125	40	38	23	8	36	219	49	126	37
2	36	128	32	41	26	8	48	222	46	129	33
2	48	131	24	44	28	9	00	225	42	132	32
3	00	134	18	47	28	9	12	228	36	135	32
3	12	137	14	50	27	9	24	231	28	138	34
3	24	140	11	53	23	9	36	234	20	141	37
3	36	143	08	56	19	9	48	237	10	144	42
3	48	146	07	59	13	10	00	239	59	147	49
4	00	149	07	62	05	10	12	242	47	150	57
4	12	152	09	64	57	10	24	245	34	154	07
4	24	155	12	67	47	10	36	248	08	157	17
4	36	158	14	70	36	10	48	251	08	160	30
4	48	161	19	73	24	11	00	253	53	163	43
5	00	164	24	76	11	11	12	256	39	166	57
5	12	167	31	78	58	11	24	259	23	170	12
5	24	170	38	81	44	11	36	262	07	173	28
5	36	173	45	84	30	11	48	264	52	176	44
5	48	176	53	87	15	12	00	267	37	180	00
6	00	180	00	90	00	12	12	270	21	183	16

TABLE 9. (*Contd.*) Latitude Degree **6** North

வாக்கியம் 9. (தொடர்ச்சி.) அகூரூம்சம் பாகை **6** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	273	07	186	32	18	24	6	48	275	30
12	36	275	53	189	48	18	36	10	15	278	16
12	48	278	40	193	03	18	48	13	38	281	02
13	00	281	27	196	17	19	00	17	02	283	49
13	12	284	07	199	30	19	12	20	24	286	36
13	24	287	06	202	43	19	24	23	44	289	24
13	36	289	58	205	53	19	36	27	08	292	13
13	48	292	49	209	03	19	48	30	40	295	03
14	00	295	44	212	11	20	00	33	34	297	55
14	12	298	38	215	18	20	12	36	48	300	47
14	24	301	36	218	23	20	24	40	00	303	41
14	36	304	34	221	26	20	36	43	09	306	37
14	48	407	35	224	28	20	48	46	16	309	33
15	00	310	39	227	28	21	00	49	21	312	32
15	12	313	44	230	27	21	12	52	25	315	32
15	24	316	51	233	23	21	24	55	26	318	34
15	36	320	00	236	19	21	36	58	24	321	37
15	48	323	12	239	13	21	48	61	22	324	42
16	00	326	26	242	05	22	00	64	16	327	49
16	12	329	20	244	57	22	12	67	11	330	57
16	24	332	57	247	47	22	24	70	02	334	07
16	36	336	16	250	36	22	36	72	54	337	17
16	48	339	36	253	24	22	48	75	53	340	30
17	00	342	58	256	11	23	00	78	33	343	43
17	12	346	22	258	58	23	12	81	20	346	57
17	24	349	45	261	44	23	24	84	07	350	12
17	36	353	12	264	30	23	36	86	53	353	28
17	48	356	34	267	15	23	48	89	39	356	44
18	00	360	00	270	00	24	00	92	23	360	00
18	12	3	26	272	45						

TABLE 9. (*Contd.*) Latitude Degree 7 North

வாக்கியம் 9. (தொடர்ச்சி.) அகூரூம்சம் பாகை 7 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	92	46	0	00	6	12	183	06	92	45
0	12	95	31	3	16	6	24	186	18	95	30
0	24	98	16	6	32	6	36	189	19	98	16
0	36	101	00	9	48	6	48	191	38	101	02
0	48	103	45	13	03	7	00	195	29	103	49
1	00	106	30	16	17	7	12	198	33	106	36
1	12	109	14	19	30	7	24	201	36	109	24
1	24	112	01	22	43	7	36	204	38	112	13
1	36	114	47	25	53	7	48	207	40	115	03
1	48	117	33	29	03	8	00	210	40	117	55
2	00	120	22	32	11	8	12	213	40	120	47
2	12	123	10	35	18	8	24	216	37	123	41
2	24	126	00	38	23	8	36	219	34	126	37
2	36	128	50	41	26	8	48	222	30	129	33
2	48	131	43	44	28	9	00	225	24	132	32
3	00	134	36	47	28	9	12	228	17	135	32
3	12	137	30	50	27	9	24	231	10	138	34
3	24	140	26	53	23	9	36	234	00	141	37
3	36	143	23	56	19	9	48	236	50	144	42
3	48	146	20	59	13	10	00	239	38	147	49
4	00	149	20	62	05	10	12	242	27	150	57
4	12	152	20	64	57	10	24	245	13	154	07
4	24	155	22	67	47	10	36	247	59	157	17
4	36	158	24	70	36	10	48	250	46	160	30
4	48	161	27	73	24	11	00	153	30	163	43
5	00	164	31	76	11	11	12	256	15	166	57
5	12	168	22	78	58	11	24	259	00	170	12
5	24	170	41	81	44	11	36	261	44	173	28
5	36	173	42	84	30	11	48	264	29	176	44
5	48	176	54	87	15	12	00	267	14	180	00
6	00	180	00	90	00	12	12	269	58	183	16

TABLE 9. *(Contd.)* Latitude Degree 7 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 7 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	272	44	186	32	18	24	6	54	275	30
12	36	275	29	189	48	18	36	10	20	278	16
12	48	278	13	193	03	18	48	13	46	281	02
13	00	281	04	196	17	19	00	17	10	283	49
13	12	283	53	199	30	19	12	20	33	286	36
13	24	286	43	202	43	19	24	23	55	289	24
13	36	289	34	205	53	19	36	27	39	292	13
13	48	292	27	209	03	19	48	30	34	295	03
14	00	295	21	212	11	20	00	33	50	297	55
14	12	298	17	215	18	20	12	37	05	300	47
14	24	301	15	218	23	20	24	40	17	303	41
14	36	304	14	221	26	20	36	43	26	306	37
14	48	307	16	224	28	20	48	46	35	309	33
15	00	310	20	227	28	21	00	49	40	312	32
15	12	313	25	230	27	21	12	52	44	315	32
15	24	316	34	233	23	21	24	55	46	318	34
15	36	319	43	236	19	21	36	58	45	321	37
15	48	322	55	239	13	21	48	61	43	324	42
16	00	326	10	242	05	22	00	64	39	327	49
16	12	329	26	244	57	22	12	67	33	330	57
16	24	332	21	247	47	22	24	70	26	334	07
16	36	336	05	250	36	22	36	73	17	337	17
16	48	339	27	253	24	22	48	76	07	340	30
17	00	342	50	256	11	23	00	78	56	343	43
17	12	346	14	258	58	23	12	81	47	346	57
17	24	349	40	261	44	23	24	84	31	350	12
17	36	353	06	264	30	23	36	87	16	353	28
17	48	356	33	267	15	23	48	80	02	356	44
18	00	360	00	270	00	24	00	92	46	360	00
18	12	3	27	272	45						

TABLE 9. (Contd.) Latitude Degree 8 North.
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 8 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	93	11	0	00	6	12	183	05	92	45
0	12	95	55	3	16	6	24	186	10	95	30
0	24	98	40	6	32	6	36	190	00	98	16
0	36	101	24	9	48	6	48	192	19	101	02
0	48	104	08	13	03	7	00	195	22	103	49
1	00	106	53	16	17	7	12	198	25	106	36
1	12	109	37	19	30	7	24	201	27	109	24
1	24	112	23	22	43	7	36	204	29	112	13
1	36	115	09	25	53	7	48	207	29	115	03
1	48	117	55	29	03	8	00	210	28	117	55
2	00	120	42	32	11	8	12	213	26	120	47
2	12	123	30	35	18	8	24	216	23	123	41
2	24	126	19	38	23	8	36	219	19	126	37
2	36	129	09	41	26	8	48	222	14	129	33
2	48	132	00	44	28	9	00	225	07	132	32
3	00	134	53	47	28	9	12	228	00	135	32
3	12	137	46	50	27	9	24	230	51	138	34
3	24	140	41	53	23	9	36	233	41	141	37
3	36	143	37	56	19	9	48	236	30	144	42
3	48	146	34	59	13	10	00	239	18	147	49
4	00	149	32	62	05	10	12	242	05	150	57
4	12	152	31	64	57	10	24	244	51	154	07
4	24	155	31	67	47	10	36	247	37	157	17
4	36	158	33	70	36	10	48	250	23	160	30
4	48	161	35	73	24	11	00	253	07	163	43
5	00	164	38	76	11	11	12	255	52	166	57
5	12	167	41	78	58	11	24	258	36	170	12
5	24	170	46	81	44	11	36	261	20	173	28
5	36	173	50	84	30	11	48	264	05	176	44
5	48	176	55	87	15	12	00	266	49	180	00
6	00	180	00	90	00	12	12	269	34	183	16

TABLE 9. (Contd.) Latitude Degree 8 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 8 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	272	19	186	32	18	24	6	57	275	30
12	36	275	05	189	48	18	36	10	26	278	16
12	48	277	52	193	03	18	48	13	52	281	02
13	00	280	40	196	17	19	00	17	18	283	49
13	12	283	28	199	30	19	12	20	44	286	36
13	24	286	19	202	43	19	24	24	07	289	24
13	36	289	10	205	53	19	36	27	28	292	13
13	48	292	04	209	03	19	48	30	48	295	03
14	00	294	58	212	11	20	00	34	05	297	55
14	12	297	54	215	18	20	12	37	20	300	47
14	24	300	52	218	23	20	24	40	34	303	41
14	36	303	52	221	26	20	36	43	46	306	37
14	48	306	55	224	28	20	48	46	54	309	33
15	00	310	00	227	28	21	00	50	00	312	32
15	12	313	06	230	27	21	12	53	05	315	32
15	24	316	14	233	23	21	24	56	08	318	34
15	36	319	26	236	19	21	36	59	08	321	37
15	48	322	40	239	13	21	48	62	06	324	42
16	00	325	55	242	05	22	00	65	02	327	49
16	12	329	12	244	57	22	12	67	56	330	57
16	24	332	32	247	47	22	24	70	50	334	07
16	36	335	53	250	36	22	36	73	41	337	17
16	48	339	16	253	24	22	48	76	32	340	30
17	00	342	42	256	11	23	00	79	20	343	43
17	12	346	08	258	58	23	12	82	08	346	57
17	24	349	34	261	44	23	24	84	55	350	12
17	36	353	03	264	30	23	36	87	41	353	28
17	48	356	32	267	15	23	48	90	26	356	44
18	00	360	00	270	00	24	00	93	11	360	00
18	12	3	28	272	45						

TABLE 9. (*Contd.*) Latitude Degree **9** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **9** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	93	36	0	00	6	12	183	04	92	45
0	12	96	18	3	16	6	24	186	17	95	30
0	24	99	03	6	32	6	36	189	11	98	16
0	36	101	48	9	48	6	48	192	13	101	02
0	48	104	31	13	03	7	00	195	15	103	49
1	00	107	15	16	17	7	12	198	17	106	36
1	12	110	00	19	30	7	24	201	19	109	24
1	24	112	45	22	43	7	36	204	18	112	13
1	36	115	29	25	53	7	48	207	17	115	03
1	48	118	15	29	03	8	00	210	15	117	55
2	00	121	03	32	11	8	12	213	13	120	47
2	12	123	51	35	18	8	24	216	09	123	41
2	24	126	39	38	23	8	36	219	04	126	37
2	36	129	28	41	26	8	48	221	57	129	33
2	48	132	18	44	28	9	00	225	50	132	32
3	00	135	10	47	28	9	12	227	42	135	32
3	12	138	03	50	27	9	24	230	32	138	34
3	24	140	56	53	23	9	36	233	21	141	37
3	36	143	51	56	19	9	48	236	09	144	42
3	48	146	47	59	13	10	00	238	57	147	49
4	00	149	45	62	05	10	12	241	45	150	57
4	12	152	43	64	57	10	24	244	31	154	07
4	24	155	42	67	47	10	36	247	15	157	17
4	36	158	41	70	36	10	48	250	00	160	30
4	48	161	43	73	24	11	00	252	45	163	43
5	00	164	45	76	11	11	12	255	29	166	57
5	12	167	47	78	58	11	24	258	12	170	12
5	24	170	49	81	44	11	36	260	57	173	28
5	36	173	53	84	30	11	48	263	42	176	44
5	48	176	56	87	15	12	00	266	24	180	00
6	00	180	00	90	00	12	12	2_{69}	10	183	16

TABLE 9. (Contd.) Latitude Degree **9** North.

வாக்கியம் 9. (தொடர்ச்சி.) அகூாம்சம் பாகை **9** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	271	55	186	32	18	24	7	01	275	30
12	36	274	41	189	48	18	36	10	30	278	16
12	48	277	28	193	03	18	48	13	59	281	02
13	00	280	15	196	17	19	00	17	26	283	49
13	12	283	04	199	30	19	12	20	53	286	36
13	24	285	55	202	43	19	24	24	18	289	24
13	36	288	57	205	53	19	36	27	41	292	13
13	48	291	40	209	03	19	48	31	01	295	03
14	00	294	35	212	11	20	00	34	20	297	55
14	12	297	32	215	18	20	12	37	37	300	47
14	24	300	30	218	23	20	24	40	51	303	41
14	36	303	31	221	26	20	36	44	04	306	37
14	48	306	34	224	28	20	48	47	13	309	33
15	00	309	40	227	28	21	00	50	20	312	32
15	12	312	47	230	27	21	12	53	26	315	32
15	24	315	56	233	23	21	24	56	29	318	34
15	36	319	09	236	19	21	36	59	30	321	37
15	48	322	23	239	13	21	48	62	28	324	42
16	00	325	40	242	05	22	00	65	25	327	49
16	12	328	59	244	57	22	12	68	20	330	57
16	24	332	19	247	47	22	24	71	03	334	07
16	36	335	42	250	36	22	36	74	05	337	17
16	48	339	07	253	24	22	48	76	56	340	30
17	00	342	34	256	11	23	00	79	45	343	43
17	12	346	01	258	58	23	12	82	32	346	57
17	24	349	30	261	44	23	24	85	19	350	12
17	36	352	59	264	30	23	36	88	05	353	28
17	48	356	29	267	15	23	48	90	50	356	44
18	00	360	00	270	00	24	00	93	36	360	00
18	12	3	31	272	45						

TABLE 9. (*Contd.*) Latitude Degree **10** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **10** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	94	00	0	00	6	12	183	04	92	45
0	12	96	43	3	16	6	24	186	17	95	30
0	24	99	27	6	32	6	36	189	11	98	16
0	36	102	11	9	48	6	48	192	13	101	02
0	48	104	55	13	03	7	00	195	15	103	49
1	00	107	39	16	17	7	12	198	17	106	36
1	12	110	23	19	30	7	24	201	19	109	24
1	24	113	07	22	43	7	36	204	18	112	13
1	36	115	51	25	53	7	48	207	17	115	03
1	48	118	37	29	03	8	00	210	15	117	55
2	00	121	23	32	11	8	12	213	13	120	47
2	12	124	10	35	18	8	24	216	09	123	41
2	24	126	58	38	23	8	36	219	04	126	37
2	36	129	47	41	26	8	48	221	57	129	33
2	48	132	36	44	28	9	00	225	50	132	32
3	00	135	28	47	28	9	12	227	42	135	32
3	12	138	19	50	27	9	24	230	13	138	34
3	24	141	12	53	23	9	36	233	02	141	37
3	36	144	06	56	19	9	48	235	50	144	42
3	48	147	01	59	13	10	00	238	37	147	49
4	00	149	57	62	05	10	12	241	23	150	57
4	12	152	54	64	57	10	24	244	09	154	07
4	24	155	52	67	47	10	36	246	53	157	17
4	36	158	51	70	36	10	48	249	37	160	30
4	48	161	50	73	24	11	00	252	21	163	43
5	00	164	51	76	11	11	12	255	05	166	57
5	12	167	52	78	58	11	24	257	49	170	12
5	24	170	54	81	44	11	36	260	33	173	28
5	36	173	55	84	30	11	48	263	17	176	44
5	48	176	56	87	15	12	00	266	10	180	00
6	00	180	00	90	00	12	12	268	45	183	16

TABLE 9. (*Contd.*) Latitude Degree **10** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **10** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	271	31	186	32	18	24	7	35	275	30
12	36	274	16	189	48	18	36	10	46	278	16
12	48	277	04	193	03	18	48	14	06	281	02
13	00	279	51	196	17	19	00	17	35	283	49
13	12	282	41	199	30	19	12	21	03	286	36
13	24	285	31	202	43	19	24	24	29	289	24
13	36	288	23	205	53	19	36	27	54	292	13
13	48	291	16	209	03	19	48	31	16	295	03
14	00	294	11	212	11	20	00	34	36	297	55
14	12	297	48	215	18	20	12	37	54	300	47
14	24	300	07	218	23	20	24	41	09	303	41
14	36	303	09	221	26	20	36	44	22	306	37
14	48	306	13	224	28	20	48	47	33	309	33
15	00	309	19	227	28	21	00	50	41	312	32
15	12	312	27	230	27	21	12	53	47	315	32
15	24	315	38	233	23	21	24	56	51	318	34
15	36	318	51	236	19	21	36	59	53	321	37
15	48	322	06	239	13	21	48	62	12	324	42
16	00	325	24	242	05	22	00	65	49	327	49
16	12	328	44	244	57	22	12	68	44	330	57
16	24	332	06	247	47	22	24	71	37	334	07
16	36	335	31	250	36	22	36	74	29	337	17
16	48	338	57	253	24	22	48	77	19	340	30
17	00	342	25	256	11	23	00	80	09	343	43
17	12	345	54	258	58	23	12	82	56	346	57
17	24	349	14	261	44	23	24	85	44	350	12
17	36	352	55	264	30	23	36	88	29	353	28
17	48	356	28	267	15	23	48	91	15	356	44
18	00	360	00	270	00	24	00	94	00	360	00
18	12	3	32	272	45						

TABLE 9. (*Contd.*) Latitude Degree **11** North

வாக்கியம் 9. (துடர்ச்சி.) அக்ஷாம்சம் பாகை **11** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	94	24	0	00	6	12	183	01	92	45
0	12	97	07	3	16	6	24	186	02	95	30
0	24	99	52	6	32	6	36	189	03	98	16
0	36	102	35	9	48	6	48	192	03	101	02
0	48	105	18	13	03	7	00	195	02	103	49
1	00	108	02	16	17	7	12	198	02	106	36
1	12	110	45	19	30	7	24	201	01	109	24
1	24	113	29	22	43	7	36	203	58	112	13
1	36	116	13	25	53	7	48	206	55	115	03
1	48	118	58	29	03	8	00	209	51	117	55
2	00	121	44	32	11	8	12	212	46	120	47
2	12	124	31	35	18	8	24	215	40	123	41
2	24	127	17	38	23	8	36	218	33	126	37
2	36	130	06	41	26	8	48	221	25	129	33
2	48	132	54	44	28	9	00	224	16	132	32
3	00	135	44	47	28	9	12	227	06	135	32
3	12	138	35	50	27	9	24	229	54	138	34
3	24	141	27	53	23	9	36	232	43	141	37
3	36	144	20	56	19	9	48	235	29	144	42
3	48	147	14	59	13	10	00	238	16	147	49
4	00	150	09	62	05	10	12	241	02	150	57
4	12	153	05	64	57	10	24	243	47	154	07
4	24	156	02	67	47	10	36	246	31	157	17
4	36	158	59	70	36	10	48	249	15	160	30
4	48	161	58	73	24	11	00	251	58	163	43
5	00	164	58	76	11	11	12	254	42	166	57
5	12	167	57	78	58	11	24	257	25	170	12
5	24	170	57	81	44	11	36	260	08	173	28
5	36	173	58	84	30	11	48	262	53	176	44
5	48	176	59	87	15	12	00	265	36	180	00
6	00	180	00	90	00	12	12	268	20	183	16

TABLE 9. *(Contd.)* Latitude Degree **11** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **11** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	271	06	186	32	18	24	7	07	275	30
12	36	273	51	189	48	18	36	10	41	278	16
12	48	276	38	193	03	18	48	14	13	281	02
13	00	279	26	196	17	19	00	17	44	283	49
13	12	282	16	199	30	19	12	21	14	286	36
13	24	285	06	202	43	19	24	24	41	289	24
13	36	287	58	205	53	19	36	28	07	292	13
13	48	290	52	209	03	19	48	31	30	295	03
14	00	293	48	212	11	20	00	34	52	297	55
14	12	296	45	215	18	20	12	38	11	300	47
14	24	299	45	218	23	20	24	41	28	303	41
14	36	302	47	221	26	20	36	44	42	306	37
14	48	305	51	224	28	20	48	47	53	309	33
15	00	308	58	227	28	21	00	51	02	312	32
15	12	312	07	230	27	21	12	54	09	315	32
15	24	315	18	233	23	21	24	57	13	318	34
15	36	318	32	236	19	21	36	60	15	321	37
15	48	321	49	239	13	21	48	63	15	324	42
16	00	325	08	242	05	22	00	66	12	327	49
16	12	328	30	244	57	22	12	69	08	330	57
16	24	331	53	247	47	22	24	72	02	334	07
16	36	335	19	250	36	22	36	74	54	337	17
16	48	338	46	253	24	22	48	77	44	340	30
17	00	342	16	256	11	23	00	80	34	343	43
17	12	345	47	258	58	23	12	83	22	346	57
17	24	349	19	261	44	23	24	86	09	350	12
17	36	352	53	264	30	23	36	88	54	353	28
17	48	358	56	267	15	23	48	91	40	356	44
18	00	360	00	270	00	24	00	94	24	360	00
18	12	3	34	272	45						

TABLE 9. *(Contd.)* Latitude Degree **12** North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **12** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	94	48	0	00	6	12	182	59	92	45
0	12	97	31	3	16	6	24	186	00	95	30
0	24	100	15	6	32	6	36	188	59	98	16
0	36	102	59	9	48	6	48	191	58	101	02
0	48	105	41	13	03	7	00	194	57	103	49
1	00	108	24	16	17	7	12	197	55	106	36
1	12	111	08	19	30	7	24	201	52	109	24
1	24	113	51	22	43	7	36	203	48	112	13
1	36	116	35	25	53	7	48	206	44	115	03
1	48	119	20	29	03	8	00	209	39	117	55
2	00	122	04	32	11	8	12	212	33	120	47
2	12	124	50	35	18	8	24	215	26	123	41
2	24	127	36	38	23	8	36	218	18	126	37
2	36	130	24	41	26	8	48	221	09	129	33
2	48	133	12	44	28	9	00	223	59	132	32
3	00	136	01	47	28	9	12	226	48	135	32
3	12	138	51	50	27	9	24	229	36	138	34
3	24	141	42	53	23	9	36	232	24	141	37
3	36	144	34	56	19	9	48	235	10	144	42
3	48	147	27	59	13	10	00	237	56	147	49
4	00	150	21	62	05	10	12	240	40	150	57
4	12	153	16	64	57	10	24	243	25	154	07
4	24	156	12	67	47	10	36	246	09	157	17
4	36	158	08	70	36	10	48	248	52	160	30
4	48	162	05	73	24	11	00	251	36	163	43
5	00	165	03	76	11	11	12	254	19	166	57
5	12	168	02	78	58	11	24	257	01	170	12
5	24	171	01	81	44	11	36	259	45	173	28
5	36	174	00	84	30	11	48	262	29	176	44
5	48	177	01	87	15	12	00	265	12	180	00
6	00	180	00	90	00	12	12	267	57	183	16

TABLE 9. (Contd.) Latitude Degree **12** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **12** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	270	41	186	32	18	24	7	11	275	30
12	36	273	27	189	48	18	36	10	46	278	16
12	48	276	13	193	03	18	48	14	21	281	02
13	00	279	01	196	17	19	00	17	53	283	49
13	12	281	51	199	30	19	12	21	24	286	36
13	24	284	32	202	43	19	24	24	53	289	24
13	36	287	34	205	53	19	36	28	20	292	13
13	48	290	28	209	03	19	48	31	45	295	03
14	00	293	23	212	11	20	00	35	08	297	55
14	12	296	22	215	18	20	12	38	28	300	47
14	24	299	22	218	23	20	24	41	46	303	41
14	36	302	25	221	26	20	36	45	01	306	37
14	48	305	30	224	28	20	48	48	13	309	33
15	00	308	36	227	28	21	00	51	24	312	32
15	12	311	47	230	27	21	12	54	30	315	32
15	24	314	59	233	23	21	24	57	35	318	34
15	36	318	14	236	19	21	36	60	38	321	37
15	48	321	32	239	13	21	48	63	38	324	42
16	00	324	52	242	05	22	00	66	37	327	49
16	12	328	15	244	57	22	12	69	32	330	57
16	24	331	40	247	47	22	24	72	26	334	07
16	36	335	07	250	36	22	36	75	28	337	17
16	48	338	36	253	24	22	48	78	09	340	30
17	00	342	07	256	11	23	00	80	59	343	43
17	12	345	39	258	58	23	12	83	47	346	57
17	24	349	14	261	44	23	24	86	33	350	12
17	36	352	49	264	30	23	36	89	19	353	28
17	48	356	24	267	15	23	48	92	03	356	44
18	00	360	00	270	00	24	00	94	48	360	00
18	12	3	36	272	45						

TABLE 9. (*Contd.*) Latitude Degree **13** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **13** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	95	13	0	00	6	12	182	59	92	45
0	12	97	57	3	16	6	24	185	57	95	30
0	24	100	43	6	32	6	36	188	55	98	16
0	36	103	25	9	48	6	48	191	53	101	02
0	48	106	04	13	03	7	00	194	50	103	49
1	00	108	47	16	17	7	12	197	46	106	36
1	12	111	41	19	30	7	24	200	42	109	24
1	24	114	13	22	43	7	36	203	38	112	13
1	36	116	57	25	53	7	48	206	33	115	03
1	48	120	20	29	03	8	00	209	26	117	55
2	00	122	25	32	11	8	12	212	20	120	47
2	12	125	10	35	18	8	24	215	11	123	41
2	24	127	56	38	23	8	36	218	02	126	37
2	36	130	42	41	26	8	48	220	52	129	33
2	48	133	30	44	28	9	00	223	41	132	32
3	00	136	19	47	28	9	12	226	30	135	32
3	12	139	08	50	27	9	24	229	18	138	34
3	24	141	58	53	23	9	36	232	04	141	37
3	36	144	49	56	19	9	48	234	50	144	42
3	48	147	40	59	13	10	00	237	35	147	49
4	00	150	34	62	05	10	12	239	40	150	57
4	12	153	27	64	57	10	24	243	03	154	07
4	24	156	22	67	47	10	36	245	47	157	17
4	36	159	18	70	36	10	48	248	29	160	30
4	48	162	14	73	24	11	00	251	13	163	43
5	00	165	10	76	11	11	12	253	56	166	57
5	12	168	07	78	58	11	24	256	35	170	12
5	24	171	05	81	44	11	36	259	17	173	28
5	36	174	03	84	30	11	48	262	03	176	44
5	48	177	01	87	15	12	00	264	47	180	00
6	00	180	00	90	00	12	12	267	32	183	16

TABLE 9. (Contd.) Latitude Degree **13** North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **13** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	270	16	186	32	18	24	7	15	275	30
12	36	273	00	189	48	18	36	10	52	278	16
12	48	275	48	193	03	18	48	14	28	281	02
13	00	278	36	196	17	19	00	18	02	283	49
13	12	281	25	199	30	19	12	21	57	286	36
13	24	284	20	202	43	19	24	25	06	289	24
13	36	287	09	205	53	19	36	28	34	292	13
13	48	290	03	209	03	19	48	31	58	295	03
14	00	292	59	212	11	20	00	35	25	297	55
14	12	295	58	215	18	20	12	38	46	300	47
14	24	298	59	218	23	20	24	42	05	303	41
14	36	302	01	221	26	20	36	45	21	306	37
14	48	305	07	224	28	20	48	48	34	309	33
15	00	308	15	227	28	21	00	51	45	312	32
15	12	311	26	230	27	21	12	54	53	315	32
15	24	314	39	233	23	21	24	57	59	318	34
15	36	317	55	236	19	21	36	61	01	321	37
15	48	321	14	239	13	21	48	64	02	324	42
16	00	324	35	242	05	22	00	67	01	327	49
16	12	328	02	244	57	22	12	69	57	330	57
16	24	331	26	247	47	22	24	72	51	334	07
16	36	334	54	250	36	22	36	75	40	337	17
16	48	338	03	253	24	22	48	78	35	340	30
17	00	341	58	256	11	23	00	81	24	343	43
17	12	345	32	258	58	23	12	84	12	346	57
17	24	349	08	261	44	23	24	87	00	350	12
17	36	352	45	264	30	23	36	89	44	353	28
17	48	356	23	267	15	23	48	92	28	356	44
18	00	360	00	270	00	24	00	95	13	360	00
18	12	3	37	272	45						

TABLE 9. (*Contd.*) Latitude Degree **14** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **14** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	95	38	0	00	6	12	182	57	92	45
0	12	98	21	3	16	6	24	185	54	95	30
0	24	101	04	6	32	6	36	188	51	98	16
0	36	103	46	9	48	6	48	191	48	101	02
0	48	106	29	13	03	7	00	194	43	103	49
1	00	109	11	16	17	7	12	197	39	106	36
1	12	111	53	19	30	7	24	200	33	109	24
1	24	114	54	22	43	7	36	203	28	112	13
1	36	117	18	25	53	7	48	206	22	115	03
1	48	120	02	29	03	8	00	209	15	117	55
2	00	122	46	32	11	8	12	212	07	120	47
2	12	125	30	35	18	8	24	214	57	123	41
2	24	128	15	38	23	8	36	217	47	126	37
2	36	131	01	41	26	8	48	220	37	129	33
2	48	133	47	44	28	9	00	223	25	132	32
3	00	136	35	47	28	9	12	226	13	135	32
3	12	139	23	50	27	9	24	228	59	138	34
3	24	142	13	53	23	9	36	231	45	141	37
3	36	145	03	56	19	9	48	234	30	144	42
3	48	147	53	59	13	10	00	237	14	147	49
4	00	150	45	62	05	10	12	239	58	150	57
4	12	153	38	64	57	10	24	242	42	154	07
4	24	156	32	67	47	10	36	245	06	157	17
4	36	159	27	70	36	10	48	248	07	160	30
4	48	162	21	73	24	11	00	250	49	163	43
5	00	165	17	76	11	11	12	253	31	166	57
5	12	168	12	78	58	11	24	256	14	170	12
5	24	171	09	81	44	11	36	258	56	173	28
5	36	174	06	84	30	11	48	261	39	176	44
5	48	177	03	87	15	12	00	264	22	180	00
6	00	180	00	90	00	12	12	267	06	183	16

TABLE 9. (*Contd.*) Latitude Degree **14** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **14** வடக்கு

Siderial Time நட்சத்திர வேளை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர வேளை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	269	50	186	32	18	24	7	19	275	30
12	36	272	36	189	48	18	36	10	58	278	16
12	48	275	23	193	03	18	48	14	36	281	02
13	00	278	11	196	17	19	00	18	11	283	49
13	12	281	00	199	30	19	12	21	46	286	36
13	24	283	51	202	43	19	24	25	18	289	24
13	36	286	43	205	53	19	36	28	48	292	13
13	48	289	38	209	03	19	48	32	17	295	03
14	00	292	35	212	11	20	00	35	42	297	55
14	12	295	34	215	18	20	12	39	05	300	47
14	24	298	34	218	23	20	24	42	25	303	41
14	36	301	38	221	26	20	36	45	41	306	37
14	48	304	44	224	28	20	48	48	56	309	33
15	00	307	53	227	28	21	00	52	07	312	32
15	12	311	04	230	27	21	12	55	16	315	32
15	24	314	19	233	23	21	24	58	22	318	34
15	36	317	35	236	19	21	36	61	26	321	37
15	48	320	55	239	13	21	48	64	26	324	42
16	00	324	18	242	05	22	00	67	25	327	49
16	12	327	43	244	57	22	12	70	22	330	57
16	24	331	12	247	47	22	24	73	17	334	07
16	36	334	42	250	36	22	36	76	09	337	17
16	48	338	14	253	24	22	48	79	00	340	30
17	00	341	49	256	11	23	00	81	49	343	43
17	12	345	24	258	58	23	12	84	37	346	57
17	24	349	02	261	44	23	24	87	24	350	12
17	36	352	41	264	30	23	36	90	10	353	28
17	48	356	20	267	15	23	48	92	54	356	44
18	00	360	00	270	00	24	00	95	38	360	00
18	12	3	40	272	45						

TABLE 9. (*Contd.*) Latitude Degree **15** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **15** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	96	03	0	00	6	12	182	59	92	45
0	12	98	45	3	16	6	24	185	52	95	30
0	24	101	28	6	32	6	36	188	47	98	16
0	36	104	10	9	48	6	48	191	42	101	02
0	48	106	52	13	03	7	00	194	38	103	49
1	00	108	55	16	17	7	12	197	32	106	36
1	12	112	16	19	30	7	24	200	26	109	24
1	24	114	58	22	43	7	36	203	19	112	13
1	36	117	40	25	53	7	48	206	11	115	03
1	48	120	23	29	03	8	00	209	02	117	55
2	00	123	06	32	11	8	12	211	54	120	47
2	12	125	50	35	18	8	24	214	44	123	41
2	24	128	35	38	23	8	36	217	32	126	37
2	36	131	19	41	26	8	48	220	21	129	33
2	48	134	05	44	28	9	00	223	09	132	32
3	00	136	51	47	28	9	12	225	55	135	32
3	12	139	39	50	27	9	24	228	41	138	34
3	24	142	28	53	23	9	36	231	25	141	37
3	36	145	16	56	19	9	48	234	10	144	42
3	48	148	06	59	13	10	00	236	54	147	49
4	00	150	58	62	05	10	12	239	37	150	57
4	12	153	49	64	57	10	24	242	20	154	07
4	24	156	41	67	47	10	36	245	02	157	17
4	36	159	34	70	36	10	48	247	44	160	30
4	48	162	28	73	24	11	00	251	05	163	43
5	00	165	22	76	11	11	12	253	08	166	57
5	12	168	18	78	58	11	24	255	50	170	12
5	24	171	13	81	44	11	36	258	32	173	28
5	36	174	08	84	30	11	48	261	15	176	44
5	48	177	01	87	15	12	00	263	57	180	00
6	00	180	00	90	00	12	12	266	41	183	16

TABLE 9. *(Contd.)* Latitude Degree **15** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **15** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	269	25	186	32	18	24	7	24	275	30
12	36	272	11	189	48	18	36	11	04	278	16
12	48	274	58	193	03	18	48	14	43	281	02
13	00	277	45	196	17	19	00	18	21	283	49
13	12	280	35	199	30	19	12	21	57	286	36
13	24	283	25	202	43	19	24	25	31	289	24
13	36	286	19	205	53	19	36	29	04	292	13
13	48	289	13	209	03	19	48	32	32	295	03
14	00	292	10	212	11	20	00	35	59	297	55
14	12	295	09	215	18	20	12	39	23	300	47
14	24	298	11	218	23	20	24	42	44	303	41
14	36	301	15	221	26	20	36	46	02	306	37
14	48	304	22	224	28	20	48	49	17	309	33
15	00	307	31	227	28	21	00	52	29	312	32
15	12	310	43	230	27	21	12	55	38	315	32
15	24	313	58	233	23	21	24	58	45	318	34
15	36	317	16	236	19	21	36	61	49	321	37
15	48	320	37	239	13	21	48	64	51	324	42
16	00	324	01	242	05	22	00	67	50	327	49
16	12	327	28	244	57	22	12	70	47	330	57
16	24	330	56	247	47	22	24	73	41	334	07
16	36	334	29	250	36	22	36	76	35	337	17
16	48	338	09	253	24	22	48	79	25	340	30
17	00	341	39	256	11	23	00	82	15	343	43
17	12	345	17	258	58	23	12	85	02	346	57
17	24	348	56	261	44	23	24	87	49	350	12
17	36	352	36	264	30	23	36	90	35	353	28
17	48	356	28	267	15	23	48	93	19	356	44
18	00	360	00	270	00	24	00	96	03	360	00
18	12	3	32	272	45						

TABLE 9. *(Contd.)* Latitude Degree **16** North.

வாக்கியம் 9. (தொடர்ச்சி.) அகலாட்சம் பாகை **16** வடக்கு

Sidereal Time நட்சத்திர தோராயம்		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Sidereal Time நட்சத்திர தோராயம்		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	96	29	0	00	6	12	182	54	92	45
0	12	99	12	3	16	6	24	185	49	95	30
0	24	101	53	6	32	6	36	188	44	98	16
0	36	104	35	9	48	6	48	191	37	101	02
0	48	107	17	13	03	7	00	194	31	103	49
1	00	109	58	16	17	7	12	197	24	106	36
1	12	112	39	19	30	7	24	200	17	109	24
1	24	115	20	22	43	7	36	203	08	112	13
1	36	118	02	25	53	7	48	206	00	115	03
1	48	120	44	29	03	8	00	208	51	117	55
2	00	123	27	32	11	8	12	211	41	120	47
2	12	126	11	35	18	8	24	214	19	123	41
2	24	128	54	38	23	8	36	217	17	126	37
2	36	131	38	41	26	8	48	220	05	129	33
2	48	134	23	44	28	9	00	222	51	132	32
3	00	137	09	47	28	9	12	225	37	135	32
3	12	139	55	50	27	9	24	228	22	138	34
3	24	142	43	53	23	9	36	231	06	141	37
3	36	145	41	56	19	9	48	233	49	144	42
3	48	148	19	59	13	10	00	236	33	147	49
4	00	151	09	62	05	10	12	239	16	150	57
4	12	154	00	64	57	10	24	241	58	154	07
4	24	156	52	67	47	10	36	244	40	157	17
4	36	159	43	70	36	10	48	247	21	160	30
4	48	162	36	73	24	11	00	250	02	163	43
5	00	165	29	76	11	11	12	252	43	166	57
5	12	168	23	78	58	11	24	255	25	170	12
5	24	171	16	81	44	11	36	258	07	173	28
5	36	174	11	84	30	11	48	260	48	176	44
5	48	177	06	87	15	12	00	263	31	180	00
6	00	180	00	90	00	12	12	266	15	183	16

TABLE 9. (*Contd.*) Latitude Degree **16** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **16** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	268	59	186	32	18	24	7	27	275	30
12	36	271	44	189	48	18	36	11	09	278	16
12	48	274	31	193	03	18	48	14	51	281	02
13	00	277	19	196	17	19	00	18	31	283	49
13	12	280	08	199	30	19	12	22	09	286	36
13	24	282	49	202	43	19	24	25	45	289	24
13	36	285	52	205	53	19	36	29	19	292	13
13	48	288	47	209	03	19	48	32	49	295	03
14	00	291	44	212	11	20	00	36	17	297	55
14	12	294	44	215	18	20	12	39	42	300	47
14	24	297	44	218	23	20	24	43	05	303	41
14	36	300	42	221	26	20	36	46	24	306	37
14	48	303	57	224	28	20	48	49	39	309	33
15	00	307	08	227	28	21	00	52	52	312	32
15	12	310	21	230	27	21	12	56	03	315	32
15	24	313	36	233	23	21	24	59	18	318	34
15	36	316	55	236	19	21	36	62	16	321	37
15	48	320	18	239	13	21	48	65	16	324	42
16	00	323	43	242	05	22	00	68	16	327	49
16	12	327	11	244	57	22	12	71	13	330	57
16	24	330	41	247	47	22	24	74	08	334	07
16	36	334	15	250	36	22	36	77	11	337	17
16	48	338	51	253	24	22	48	79	52	340	30
17	00	341	29	256	11	23	00	82	41	343	43
17	12	345	09	258	58	23	12	85	29	346	57
17	24	348	51	261	44	23	24	88	16	350	12
17	36	352	33	264	30	23	36	91	01	353	28
17	48	356	16	267	15	23	48	93	45	356	44
18	00	360	00	270	00	24	00	96	29	360	00
18	12	3	44	272	45						

TABLE 9. (*Contd.*) Latitude Degree 17 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 17 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	96	53	0	00	6	12	182	54	92	45
0	12	99	36	3	16	6	24	186	17	95	30
0	24	102	18	6	32	6	36	188	30	98	16
0	36	104	59	9	48	6	48	191	30	101	02
0	48	107	41	13	03	7	00	194	25	103	49
1	00	110	21	16	17	7	12	197	16	106	36
1	12	113	02	19	30	7	24	200	08	109	24
1	24	115	43	22	43	7	36	202	53	112	13
1	36	118	24	25	53	7	48	205	49	115	03
1	48	121	06	29	03	8	00	208	38	117	55
2	00	123	47	32	11	8	12	211	28	120	47
2	12	126	30	35	18	8	24	214	15	123	41
2	24	129	13	38	23	8	36	217	03	126	37
2	36	131	56	41	26	8	48	219	49	129	33
2	48	134	40	44	28	9	00	222	35	132	32
3	00	137	25	47	28	9	12	225	20	135	32
3	12	140	11	50	27	9	24	228	04	138	34
3	24	142	57	53	23	9	36	230	47	141	37
3	36	145	45	56	19	9	48	233	30	144	42
3	48	148	32	59	13	10	00	236	13	147	49
4	00	151	22	62	05	10	12	238	54	150	57
4	12	154	11	64	57	10	24	241	36	154	07
4	24	157	07	67	47	10	36	244	17	157	17
4	36	159	52	70	36	10	48	246	58	160	30
4	48	162	44	73	24	11	00	249	39	163	43
5	00	165	35	76	11	11	12	252	19	166	57
5	12	168	30	78	58	11	24	255	01	170	12
5	24	171	30	81	44	11	36	257	42	173	28
5	36	173	43	84	30	11	48	260	24	176	44
5	48	177	06	87	15	12	00	263	07	180	00
6	00	180	00	90	00	12	12	265	46	183	16

TABLE 9. (Contd.) Latitude Degree **17** North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **17** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	268	34	186	32	18	24	7	31	275	30
12	36	271	15	189	48	18	36	11	16	278	16
12	48	274	05	193	03	18	48	14	59	281	02
13	00	276	53	196	17	19	00	18	41	283	49
13	12	279	42	199	30	19	12	22	20	286	36
13	24	282	33	202	43	19	24	25	58	289	24
13	36	285	26	205	53	19	36	29	34	292	13
13	48	288	21	209	03	19	48	33	06	295	03
14	00	291	18	212	11	20	00	36	35	297	55
14	12	294	18	215	18	20	12	40	01	300	47
14	24	297	21	218	23	20	24	43	25	303	41
14	36	300	25	221	26	20	36	46	44	306	37
14	48	303	33	224	28	20	48	50	02	309	33
15	00	306	42	227	28	21	00	53	18	312	32
15	12	309	58	230	27	21	12	56	27	315	32
15	24	313	16	233	23	21	24	59	35	318	34
15	36	316	35	236	19	21	36	62	39	321	37
15	48	319	59	239	13	21	48	65	42	324	42
16	00	323	25	242	05	22	00	68	42	327	49
16	12	326	54	244	57	22	12	71	39	330	57
16	24	330	26	247	47	22	24	74	34	334	07
16	36	334	02	250	36	22	36	77	27	337	17
16	48	337	40	253	24	22	48	80	18	340	30
17	00	341	19	256	11	23	00	83	07	343	43
17	12	345	01	258	58	23	12	85	55	346	57
17	24	348	44	261	44	23	24	88	45	350	12
17	36	352	29	264	30	23	36	91	26	353	28
17	48	356	14	267	15	23	48	94	14	356	44
18	00	360	00	270	00	24	00	96	53	360	00
18	12	3	46	272	45						

TABLE 9. (*Contd.*) Latitude Degree **18** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **18** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	97	19	0	00	6	12	182	52	92	45
0	12	100	01	3	16	6	24	185	44	95	30
0	24	102	43	6	32	6	36	188	35	98	16
0	36	105	24	9	48	6	48	191	28	101	02
0	48	108	04	13	03	7	00	194	18	103	49
1	00	110	45	16	17	7	12	197	09	106	36
1	12	113	24	19	30	7	24	199	09	109	24
1	24	116	05	22	43	7	36	202	50	112	13
1	36	118	46	25	53	7	48	205	38	115	03
1	48	121	27	29	03	8	00	208	27	117	55
2	00	124	08	32	11	8	12	211	15	120	47
2	12	126	49	35	18	8	24	214	02	123	41
2	24	129	31	38	23	8	36	216	48	126	37
2	36	132	14	41	26	8	48	219	33	129	33
2	48	134	58	44	28	9	00	222	18	132	32
3	00	137	42	47	28	9	12	225	02	135	32
3	12	140	27	50	27	9	24	227	46	138	34
3	24	143	12	53	23	9	36	230	29	141	37
3	36	145	58	56	19	9	48	233	11	144	42
3	48	148	45	59	13	10	00	235	52	147	49
4	00	151	33	62	05	10	12	238	33	150	57
4	12	154	22	64	57	10	24	241	14	154	07
4	24	157	10	67	47	10	36	243	55	157	17
4	36	160	01	70	36	10	48	246	36	160	30
4	48	162	51	73	24	11	00	249	15	163	43
5	00	165	42	76	11	11	12	251	56	166	57
5	12	168	32	78	58	11	24	254	36	170	12
5	24	171	25	81	44	11	36	257	17	173	28
5	36	174	16	84	30	11	48	259	59	176	44
5	48	177	08	87	15	12	00	262	41	180	00
6	00	180	00	90	00	12	12	265	24	183	16

TABLE 9. (*Contd.*) Latitude Degree 18 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 18 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	268	08	186	32	18	24	7	36	275	30
12	36	270	53	189	48	18	36	11	22	278	16
12	48	273	38	193	03	18	48	15	08	281	02
13	00	276	27	196	17	19	00	18	52	283	49
13	12	279	16	199	30	19	12	22	33	286	36
13	24	282	07	202	43	19	24	26	12	289	24
13	36	285	00	205	53	19	36	29	50	292	13
13	48	287	55	209	03	19	48	33	22	295	03
14	00	290	53	212	11	20	00	36	54	297	55
14	12	293	53	215	18	20	12	40	21	300	47
14	24	296	45	218	23	20	24	43	46	303	41
14	36	300	01	221	26	20	36	47	06	306	37
14	48	303	09	224	28	20	48	50	24	309	33
15	00	306	21	227	28	21	00	53	39	312	32
15	12	309	36	230	27	21	12	56	51	315	32
15	24	312	54	233	23	21	24	59	59	318	34
15	36	316	14	236	19	21	36	63	15	321	37
15	48	319	39	239	13	21	48	66	07	324	42
16	00	323	06	242	05	22	00	69	07	327	49
16	12	326	38	244	57	22	12	72	05	330	57
16	24	330	10	247	47	22	24	75	00	334	07
16	36	333	38	250	36	22	36	77	53	337	17
16	48	337	27	253	24	22	48	80	44	340	30
17	00	341	08	256	11	23	00	83	32	343	43
17	12	344	52	258	58	23	12	86	22	346	57
17	24	348	38	261	44	23	24	89	07	350	12
17	36	352	24	264	30	23	36	91	52	353	28
17	48	356	12	267	15	23	48	94	36	356	44
18	00	360	00	270	00	24	00	97	19	360	00
18	12	3	48	272	45						

TABLE 9. (*Contd.*) Latitude Degree **19** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **19** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	97	45	0	00	6	12	182	54	92	45
0	12	100	27	3	16	6	24	185	42	95	30
0	24	103	08	6	32	6	36	188	32	98	16
0	36	105	48	9	48	6	48	191	22	101	02
0	48	108	29	13	03	7	00	194	12	103	49
1	00	111	08	16	17	7	12	197	02	106	36
1	12	113	48	19	30	7	24	199	51	109	24
1	24	116	29	22	43	7	36	203	40	112	13
1	36	119	09	25	53	7	48	205	27	115	03
1	48	121	48	29	03	8	00	208	15	117	55
2	00	124	29	32	11	8	12	211	01	120	47
2	12	127	13	35	18	8	24	213	48	123	41
2	24	129	52	38	23	8	36	216	32	126	37
2	36	132	33	41	26	8	48	219	17	129	33
2	48	135	15	44	28	9	00	222	01	132	32
3	00	137	59	47	28	9	12	224	45	135	32
3	12	140	43	50	27	9	24	227	27	138	34
3	24	143	28	53	23	9	36	230	08	141	37
3	36	146	12	56	19	9	48	232	47	144	42
3	48	148	59	59	13	10	00	235	31	147	49
4	00	151	45	62	05	10	12	238	12	150	57
4	12	154	33	64	57	10	24	240	51	154	07
4	24	156	20	67	47	10	36	243	31	157	17
4	36	160	09	70	36	10	48	246	12	160	30
4	48	162	58	73	24	11	00	248	52	163	43
5	00	165	48	76	11	11	12	251	31	166	57
5	12	168	38	78	58	11	24	254	12	170	12
5	24	171	28	81	44	11	36	256	52	173	28
5	36	174	18	84	30	11	48	259	33	176	44
5	48	177	06	87	15	12	00	262	15	180	00
6	00	180	00	90	00	12	12	264	58	183	16

TABLE 9. *(Contd.)* Latitude Degree **19** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **19** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	267	41	186	32	18	24	7	42	275	30
12	36	270	26	189	48	18	36	11	34	278	16
12	48	273	12	193	03	18	48	15	16	281	02
13	00	275	44	196	17	19	00	19	02	283	49
13	12	278	48	199	30	19	12	22	46	286	36
13	24	281	39	202	43	19	24	26	27	289	24
13	36	284	33	205	58	19	36	30	05	292	13
13	48	287	28	209	03	19	48	33	41	295	03
14	00	290	26	212	11	20	00	37	13	297	55
14	12	293	38	215	18	20	12	40	41	300	47
14	24	296	29	218	23	20	24	44	07	303	41
14	36	299	35	221	26	20	36	47	30	306	37
14	48	302	45	224	28	20	48	50	48	309	33
15	00	305	56	227	28	21	00	54	04	312	32
15	12	309	12	230	27	21	12	57	15	315	32
15	24	312	30	233	23	21	24	60	25	318	34
15	36	315	53	236	19	21	36	63	31	321	37
15	48	319	19	239	13	21	48	66	22	324	42
16	00	322	47	242	05	22	00	69	34	327	49
16	12	326	19	244	57	22	12	72	32	330	57
16	24	329	55	247	47	22	24	75	27	334	07
16	36	333	33	250	36	22	36	78	21	337	17
16	48	337	14	253	24	22	48	81	12	340	30
17	00	340	58	256	11	23	00	84	16	343	43
17	12	344	44	258	58	23	12	86	48	346	57
17	24	348	26	261	44	23	24	89	34	350	12
17	36	352	18	264	30	23	36	92	19	353	28
17	48	356	09	267	15	23	48	95	02	356	44
18	00	360	00	270	00	24	00	97	45	360	00
18	12	3	51	272	45						

TABLE 9. *(Contd.)* Latitude Degree 20 North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 20 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	98	12	0	00	6	12	182	50	92	45
0	12	100	53	3	16	6	24	185	39	95	30
0	24	103	33	6	32	6	36	188	28	98	16
0	36	106	14	9	48	6	48	191	17	101	02
0	48	108	54	13	03	7	00	194	07	103	49
1	00	111	33	16	17	7	12	196	54	106	36
1	12	114	12	19	30	7	24	199	42	109	24
1	24	116	51	22	43	7	36	202	30	112	13
1	36	119	31	25	53	7	48	205	40	115	03
1	48	122	10	29	03	8	00	208	03	117	55
2	00	124	50	32	11	8	12	210	49	120	47
2	12	127	31	35	18	8	24	213	34	123	41
2	24	130	10	38	23	8	36	216	18	126	37
2	36	132	52	41	26	8	48	219	01	129	33
2	48	135	54	44	28	9	00	221	44	132	32
3	00	138	16	47	28	9	12	224	26	135	32
3	12	140	59	50	27	9	24	227	08	138	34
3	24	143	42	53	23	9	36	229	50	141	37
3	36	146	26	56	19	9	48	232	29	144	42
3	48	149	11	59	13	10	00	235	10	147	49
4	00	151	57	62	05	10	12	237	50	150	57
4	12	154	20	64	57	10	24	240	29	154	07
4	24	157	30	67	47	10	36	243	09	157	17
4	36	160	18	70	36	10	48	245	48	160	30
4	48	163	06	73	24	11	00	248	27	163	43
5	00	165	53	76	11	11	12	251	06	166	57
5	12	168	43	78	58	11	24	253	46	170	12
5	24	171	32	81	44	11	36	256	27	173	28
5	36	174	21	84	30	11	48	259	07	176	44
5	48	177	10	87	15	12	00	261	48	180	00
6	00	180	00	90	00	12	12	264	31	183	16

TABLE 9. (*Contd.*) Latitude Degree 20 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 20 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	267	14	186	32	18	24	7	45	275	30
12	36	269	58	189	48	18	36	11	36	278	16
12	48	271	45	193	03	18	48	15	26	281	02
13	00	275	32	196	17	19	00	19	13	283	49
13	12	278	21	199	30	19	12	22	59	286	36
13	24	281	12	202	43	19	24	26	42	289	24
13	36	284	06	205	53	19	36	30	22	292	13
13	48	287	00	209	03	19	48	33	59	295	03
14	00	289	58	212	11	20	00	37	33	297	55
14	12	292	59	215	18	20	12	41	08	300	47
14	24	296	03	218	23	20	24	44	30	303	41
14	36	299	06	221	26	20	36	47	53	306	37
14	48	302	19	224	28	20	48	51	12	309	33
15	00	305	31	227	28	21	00	54	29	312	32
15	12	308	43	230	27	21	12	57	41	315	32
15	24	312	07	233	23	21	24	60	54	318	34
15	36	315	30	236	19	21	36	63	57	321	37
15	48	318	57	239	13	21	48	67	01	324	42
16	00	322	27	242	05	22	00	70	02	327	49
16	12	326	01	244	57	22	12	73	00	330	57
16	24	329	38	247	47	22	24	75	54	334	07
16	36	333	18	250	36	22	36	78	48	337	17
16	48	337	01	253	24	22	48	81	39	340	30
17	00	340	47	256	11	23	00	84	28	343	43
17	12	344	34	258	58	23	12	88	15	346	57
17	24	348	24	261	44	23	24	90	02	350	12
17	36	352	15	264	30	23	36	92	46	353	28
17	48	356	07	267	15	23	48	95	29	356	44
18	00	360	00	270	00	24	00	98	12	360	00
18	12	3	53	272	45						

TABLE 9. (*Contd.*) Latitude Degree 21 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 21 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	98	38	0	00	6	12	182	48	92	45
0	12	101	19	3	16	6	24	185	37	95	30
0	24	103	59	6	32	6	36	188	25	98	16
0	36	106	39	9	48	6	48	191	13	101	02
0	48	109	18	13	03	7	00	194	00	103	49
1	00	111	56	16	17	7	12	196	47	106	36
1	12	114	35	19	30	7	24	199	34	109	24
1	24	117	14	22	43	7	36	202	21	112	13
1	36	120	52	25	53	7	48	205	07	115	03
1	48	122	31	29	03	8	00	207	51	117	55
2	00	125	10	32	11	8	12	210	35	120	47
2	12	127	50	35	18	8	24	213	20	123	41
2	24	130	30	38	23	8	36	216	03	126	37
2	36	133	10	41	26	8	48	218	47	129	33
2	48	135	51	44	28	9	00	221	27	132	32
3	00	138	33	47	28	9	12	224	09	135	32
3	12	141	13	50	27	9	24	226	50	138	34
3	24	143	57	53	23	9	36	229	30	141	37
3	36	146	40	56	19	9	48	232	10	144	42
3	48	149	25	59	13	10	00	234	50	147	49
4	00	152	09	62	05	10	12	237	29	150	57
4	12	154	53	64	57	10	24	239	08	154	07
4	24	157	39	67	47	10	36	242	46	157	17
4	36	160	26	70	36	10	48	245	25	160	30
4	48	163	13	73	24	11	00	248	04	163	43
5	00	166	00	76	11	11	12	250	42	166	57
5	12	168	47	78	58	11	24	253	21	170	12
5	24	171	35	81	44	11	36	256	01	173	28
5	36	174	23	84	30	11	48	258	41	176	44
5	48	177	12	87	15	12	00	261	22	180	00
6	00	180	00	90	00	12	12	264	04	183	16

TABLE 9. (Contd.) Latitude Degree 21 North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 21 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	266	48	186	32	18	24	7	49	275	30
12	36	269	32	189	48	18	36	11	43	278	16
12	48	272	17	193	03	18	48	15	34	281	02
13	00	275	04	196	17	19	00	19	24	283	49
13	12	277	53	199	30	19	12	23	11	286	36
13	24	280	44	202	43	19	24	26	57	289	24
13	36	283	33	205	53	19	36	30	39	292	13
13	48	286	39	209	03	19	48	34	17	295	03
14	00	289	32	212	11	20	00	37	21	297	55
14	12	292	32	215	18	20	12	41	24	300	47
14	24	295	35	218	23	20	24	44	52	303	41
14	36	298	42	221	26	20	36	48	16	306	37
14	48	301	52	224	28	20	48	51	36	309	33
15	00	305	06	227	28	21	00	54	54	312	32
15	12	308	24	230	27	21	12	58	08	315	32
15	24	311	44	233	23	21	24	61	18	318	34
15	36	315	08	236	19	21	36	64	25	321	37
15	48	318	36	239	13	21	48	67	28	324	42
16	00	322	39	242	05	22	00	70	28	327	49
16	12	325	43	244	57	22	12	73	21	330	57
16	24	329	21	247	47	22	24	76	28	334	07
16	36	333	03	250	36	22	36	79	16	337	17
16	48	336	49	253	24	22	48	82	07	340	30
17	00	340	36	256	11	23	00	84	56	343	43
17	12	344	26	258	58	23	12	87	43	346	57
17	24	348	17	261	44	23	24	90	28	350	12
17	36	352	11	264	30	23	36	93	12	353	28
17	48	356	05	267	15	23	48	95	56	356	44
18	00	360	00	270	00	24	00	98	38	360	00
18	12	3	55	272	45						

TABLE 9. *(Contd.)* Latitude Degree 22 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 22 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்னம்		Dasama Lagna தசம லக்னம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்னம்		Dasama Lagna தசம லக்னம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	99	05	0	00	6	12	182	47	92	45
0	12	101	45	3	16	6	24	185	35	95	30
0	24	104	25	6	32	6	36	188	20	98	16
0	36	107	04	9	48	6	48	191	07	101	02
0	48	109	43	13	03	7	00	193	54	103	49
1	00	112	21	16	17	7	12	196	40	106	36
1	12	114	59	19	30	7	24	199	26	109	24
1	24	117	37	22	43	7	36	202	11	112	13
1	36	120	15	25	53	7	48	204	55	115	03
1	48	122	54	29	03	8	00	207	39	117	55
2	00	125	32	32	11	8	12	210	23	120	47
2	12	128	09	35	18	8	24	213	06	123	41
2	24	130	50	38	23	8	36	215	48	126	37
2	36	133	29	41	26	8	48	218	29	129	33
2	48	136	09	44	28	9	00	221	10	132	32
3	00	138	50	47	28	9	12	224	00	135	32
3	12	141	31	50	27	9	24	226	31	138	34
3	24	144	12	53	23	9	36	229	10	141	37
3	36	146	54	56	19	9	48	231	51	144	42
3	48	149	37	59	13	10	00	234	28	147	49
4	00	152	21	62	05	10	12	237	06	150	57
4	12	155	05	64	57	10	24	239	45	154	07
4	24	157	49	67	47	10	36	242	23	157	17
4	36	160	34	70	36	10	48	245	01	160	30
4	48	163	20	73	24	11	00	247	39	163	43
5	00	166	06	76	11	11	12	250	17	166	57
5	12	168	53	78	58	11	24	252	56	170	12
5	24	171	40	81	44	11	36	255	35	173	28
5	36	174	25	84	30	11	48	258	15	176	44
5	48	177	13	87	15	12	00	260	55	180	00
6	00	180	00	90	00	12	12	263	37	183	16

TABLE 9. (*Contd.*) Latitude Degree 22 North

வாக்கியம் 9. (தொடர்ச்சி.) அகூாம்சம் பாகை 22 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	266	20	186	32	18	24	7	55	275	30
12	36	269	04	189	48	18	36	11	50	278	16
12	48	271	49	193	03	18	48	15	45	281	02
13	00	274	36	196	17	19	00	19	37	283	49
13	12	277	24	199	30	19	12	23	27	286	36
13	24	279	56	202	43	19	24	27	13	289	24
13	36	283	09	205	53	19	36	30	11	292	13
13	48	286	42	209	03	19	48	34	37	295	08
14	00	289	04	212	11	20	00	38	13	297	55
14	12	292	03	215	18	20	12	41	46	300	47
14	24	295	08	218	23	20	24	45	18	303	41
14	36	298	15	221	26	20	36	48	41	306	37
14	48	301	26	224	28	20	48	52	02	309	33
15	00	304	41	227	28	21	00	55	19	312	32
15	12	307	58	230	27	21	12	58	34	315	32
15	24	311	19	233	23	21	24	61	45	318	34
15	36	314	42	236	19	21	36	64	52	321	37
15	48	318	14	239	13	21	48	67	57	324	42
16	00	321	47	242	05	22	00	70	56	327	49
16	12	325	23	244	57	22	12	73	56	330	57
16	24	329	49	247	47	22	24	76	51	334	07
16	36	332	47	250	36	22	36	80	04	337	17
16	48	336	33	253	24	22	48	82	36	340	30
17	00	340	23	256	11	23	00	85	24	343	43
17	12	344	15	258	58	23	12	88	11	346	57
17	24	348	10	261	44	23	24	90	56	350	12
17	36	352	05	264	30	23	36	93	40	353	28
17	48	356	02	267	15	23	48	96	23	356	44
18	00	360	00	270	00	24	00	99	05	360	00
18	12	3	58	272	45						

TABLE 9. (*Contd.*) Latitude Degree 23 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 23 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	99	31	0	00	6	12	182	44	92	45
0	12	102	12	3	16	6	24	185	31	95	30
0	24	104	51	6	32	6	36	188	18	98	16
0	36	107	30	9	48	6	48	191	03	101	02
0	48	110	08	13	03	7	00	193	49	103	49
1	00	112	46	16	17	7	12	196	32	106	36
1	12	115	23	19	30	7	24	199	17	109	24
1	24	118	01	22	43	7	36	202	01	112	13
1	36	120	37	25	53	7	48	204	45	115	03
1	48	123	15	29	03	8	00	207	27	117	55
2	00	125	53	32	11	8	12	210	10	120	47
2	12	128	31	35	18	8	24	212	51	123	41
2	24	131	09	38	23	8	36	215	33	126	37
2	36	133	48	41	26	8	48	218	14	129	33
2	48	136	27	44	28	9	00	220	54	132	32
3	00	139	06	47	28	9	12	223	33	135	32
3	12	141	46	50	27	9	24	226	12	138	34
3	24	144	27	53	23	9	36	228	51	141	37
3	36	147	09	56	19	9	48	231	29	144	42
3	48	149	50	59	13	10	00	234	07	147	49
4	00	152	33	62	05	10	12	236	45	150	57
4	12	155	15	64	57	10	24	239	23	154	07
4	24	157	59	67	47	10	36	241	59	157	17
4	36	160	43	70	36	10	48	244	37	160	30
4	48	163	28	73	24	11	00	247	14	163	43
5	00	166	11	76	11	11	12	249	52	166	57
5	12	168	57	78	58	11	24	252	30	170	12
5	24	171	42	81	44	11	36	255	09	173	28
5	36	174	29	84	30	11	48	257	48	176	44
5	48	177	16	87	15	12	00	260	29	180	00
6	00	180	00	90	00	12	12	263	10	183	16

TABLE 9. *(Contd.)* Latitude Degree 23 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 23 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	265	51	186	32	18	24	8	00	275	30
12	36	268	35	189	48	18	36	11	58	278	16
12	48	271	21	193	03	18	48	15	54	281	02
13	00	274	07	196	17	19	00	19	49	283	49
13	12	276	56	199	30	19	12	23	41	286	36
13	24	279	47	202	43	19	24	27	30	289	24
13	36	282	40	205	53	19	36	31	03	292	13
13	48	285	35	209	03	19	48	34	57	295	03
14	00	288	34	212	11	20	00	38	35	297	55
14	12	291	35	215	18	20	12	42	09	300	47
14	24	294	39	218	23	20	24	45	40	303	41
14	36	296	42	221	26	20	36	49	06	306	37
14	48	300	58	224	28	20	48	52	28	309	33
15	00	304	13	227	28	21	00	55	47	312	32
15	12	307	32	230	27	21	12	59	02	315	32
15	24	310	54	233	23	21	24	63	18	318	34
15	36	314	20	236	19	21	36	65	21	321	37
15	48	317	51	239	13	21	48	68	25	324	42
16	00	321	25	242	05	22	00	71	26	327	49
16	12	325	03	244	57	22	12	74	25	330	57
16	24	328	57	247	47	22	24	77	20	334	07
16	36	332	30	250	36	22	36	80	13	337	17
16	48	336	19	253	24	22	48	83	04	340	30
17	00	340	11	256	11	23	00	85	53	343	43
17	12	344	06	258	58	23	12	88	39	346	57
17	24	348	02	261	44	23	24	91	25	350	12
17	36	352	00	264	30	23	36	94	09	353	28
17	48	356	00	267	15	23	48	96	50	356	44
18	00	360	00	270	00	24	00	99	31	360	00
18	12	4	00	272	45						

TABLE 9. *(Contd.)* Latitude Degree 24 North.
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 24 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	99	59	0	00	6	12	182	45	92	45
0	12	102	39	3	16	6	24	185	29	95	30
0	24	105	17	6	32	6	36	188	14	98	16
0	36	107	55	9	48	6	48	190	57	101	02
0	48	110	33	13	03	7	00	193	41	103	49
1	00	113	10	16	17	7	12	196	26	106	36
1	12	115	47	19	30	7	24	199	08	109	24
1	24	118	24	22	43	7	36	201	51	112	13
1	36	121	00	25	53	7	48	204	33	115	03
1	48	123	37	29	03	8	00	207	16	117	55
2	00	126	14	32	11	8	12	209	57	120	47
2	12	128	51	35	18	8	24	212	38	123	41
2	24	131	29	38	23	8	36	215	18	126	37
2	36	134	32	41	26	8	48	217	58	129	33
2	48	136	45	44	28	9	00	220	37	132	32
3	00	139	23	47	28	9	12	223	15	135	32
3	12	142	02	50	27	9	24	225	28	138	34
3	24	144	42	53	23	9	36	228	31	141	37
3	36	147	22	56	19	9	48	231	09	144	42
3	48	150	03	59	13	10	00	233	46	147	49
4	00	152	44	62	05	10	12	236	23	150	57
4	12	155	27	64	57	10	24	239	00	154	07
4	24	158	09	67	47	10	36	241	36	157	17
4	36	160	52	70	36	10	48	244	13	160	30
4	48	163	34	73	24	11	00	246	50	163	43
5	00	166	19	76	11	11	12	249	27	166	57
5	12	169	03	78	58	11	24	252	05	170	12
5	24	171	46	81	44	11	36	254	43	173	28
5	36	174	31	84	30	11	48	257	21	176	44
5	48	177	15	87	15	12	00	260	01	180	00
6	00	180	00	90	00	12	12	262	42	183	16

TABLE 9. (*Contd.*) Latitude Degree 24 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 24 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	265	24	186	32	18	24	8	05	275	30
12	36	268	07	189	48	18	36	12	06	278	16
12	48	270	52	193	03	18	48	16	05	281	02
13	00	273	38	196	17	19	00	20	02	283	49
13	12	276	27	199	30	19	12	23	56	286	36
13	24	279	18	202	43	19	24	27	46	289	24
13	36	282	11	205	53	19	36	31	34	292	13
13	48	285	17	209	03	19	48	35	17	295	03
14	00	288	05	212	11	20	00	38	58	297	55
14	12	291	07	215	18	20	12	42	33	300	47
14	24	294	11	218	23	20	24	46	04	303	41
14	36	297	19	221	26	20	36	49	32	306	37
14	48	300	31	224	28	20	48	52	55	309	33
15	00	303	46	227	28	21	00	56	14	312	32
15	12	307	05	230	27	21	12	59	29	315	32
15	24	310	28	233	23	21	24	62	41	318	34
15	36	313	56	236	19	21	36	65	49	321	37
15	48	317	27	239	13	21	48	68	53	324	42
16	00	321	02	242	05	22	00	71	55	327	49
16	12	324	43	244	57	22	12	74	53	330	57
16	24	328	26	247	47	22	24	77	49	334	07
16	36	332	14	250	36	22	36	80	42	337	17
16	48	336	04	253	24	22	48	83	33	340	30
17	00	339	58	256	11	23	00	86	22	343	43
17	12	343	55	258	58	23	12	89	08	346	57
17	24	347	54	261	44	23	24	91	53	350	12
17	36	351	55	264	30	23	36	94	36	353	28
17	48	355	57	267	15	23	48	97	18	356	44
18	00	360	00	270	00	24	00	99	59	360	00
18	12	4	03	272	45						

TABLE 9. (*Contd.*) Latitude Degree 25 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 25 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	100	27	0	00	6	12	182	46	92	45
0	12	103	05	3	16	6	24	185	27	95	30
0	24	105	44	6	32	6	36	188	10	98	16
0	36	108	22	9	48	6	48	190	53	101	02
0	48	110	58	13	03	7	00	193	35	103	49
1	00	113	36	16	17	7	12	196	18	106	36
1	12	116	11	19	30	7	24	199	00	109	24
1	24	118	48	22	43	7	36	201	42	112	13
1	36	121	23	25	53	7	48	204	23	115	03
1	48	123	59	29	03	8	00	207	04	117	55
2	00	126	35	32	11	8	12	209	44	120	47
2	12	129	12	35	18	8	24	212	23	123	41
2	24	131	49	38	23	8	36	215	03	126	37
2	36	134	51	41	26	8	48	217	41	129	33
2	48	137	03	44	28	9	00	220	19	132	32
3	00	139	41	47	28	9	12	222	57	135	32
3	12	142	19	50	27	9	24	225	09	138	34
3	24	144	57	53	23	9	36	228	11	141	37
3	36	147	37	56	19	9	48	230	48	144	42
3	48	150	16	59	13	10	00	233	25	147	49
4	00	152	56	62	05	10	12	236	01	150	57
4	12	155	37	64	57	10	24	238	37	154	07
4	24	158	18	67	47	10	36	241	12	157	17
4	36	161	00	70	36	10	48	243	49	160	30
4	48	163	42	73	24	11	00	246	24	163	43
5	00	166	25	76	11	11	12	249	02	166	57
5	12	169	07	78	58	11	24	251	38	170	12
5	24	171	50	81	44	11	36	254	16	173	28
5	36	174	33	84	30	11	48	256	55	176	44
5	48	177	14	87	15	12	00	259	32	180	00
6	00	180	00	90	00	12	12	262	13	183	16

TABLE 9. (Contd.) Latitude Degree 25 North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 25 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	264	56	186	32	18	24	8	10	275	30
12	36	267	38	189	48	18	36	12	14	278	16
12	48	270	23	193	03	18	48	16	15	281	02
13	00	273	09	196	17	19	00	20	14	283	49
13	12	275	57	199	30	19	12	24	11	286	36
13	24	278	47	202	43	19	24	28	04	289	24
13	36	281	40	205	53	19	36	31	53	292	13
13	48	284	37	209	03	19	48	35	39	295	03
14	00	287	35	212	11	20	00	39	20	297	55
14	12	290	36	215	18	20	12	42	57	300	47
14	24	293	41	218	23	20	24	46	29	303	41
14	36	296	50	221	26	20	36	49	58	306	37
14	48	300	01	224	28	20	48	53	22	309	33
15	00	303	18	227	28	21	00	56	42	312	32
15	12	306	38	230	27	21	12	59	59	315	32
15	24	310	02	233	23	21	24	63	10	318	34
15	36	313	31	236	19	21	36	66	19	321	37
15	48	317	03	239	13	21	48	69	24	324	42
16	00	320	40	242	05	22	00	72	25	327	49
16	12	324	21	244	57	22	12	75	23	330	57
16	24	328	07	247	47	22	24	78	20	334	07
16	36	331	56	250	36	22	36	81	13	337	17
16	48	335	49	253	24	22	48	84	03	340	30
17	00	339	46	256	11	23	00	86	51	343	43
17	12	343	45	258	58	23	12	89	37	346	57
17	24	347	46	261	44	23	24	92	22	350	12
17	36	351	50	264	30	23	36	95	04	353	28
17	48	355	55	267	15	23	48	97	47	356	44
18	00	360	00	270	00	24	00	100	27	360	00
18	12	4	05	272	45						

TABLE 9. (*Contd.*) Latitude Degree **26** North

வாக்கியம் 9. (தொடர்ச்சி.) அகூரூம்சம் பாகை **26** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	100	54	0	00	6	12	182	42	92	45
0	12	103	34	3	16	6	24	185	25	95	30
0	24	106	11	6	32	6	36	188	06	98	16
0	36	108	49	9	48	6	48	190	47	101	02
0	48	111	25	13	03	7	00	193	29	103	49
1	00	114	01	16	17	7	12	196	11	106	36
1	12	116	36	19	30	7	24	198	51	109	24
1	24	119	11	22	43	7	36	201	32	112	13
1	36	121	08	25	58	7	48	204	12	115	03
1	48	124	22	29	03	8	00	206	51	117	55
2	00	126	57	32	11	8	12	209	31	120	47
2	12	129	32	35	18	8	24	212	09	123	41
2	24	132	08	38	23	8	36	214	47	126	37
2	36	134	44	41	26	8	48	217	15	129	33
2	48	137	20	44	28	9	00	220	02	132	32
3	00	139	58	47	28	9	12	222	40	135	32
3	12	142	35	50	27	9	24	225	16	138	34
3	24	145	13	53	23	9	36	227	52	141	37
3	36	147	51	56	19	9	48	230	28	144	42
3	48	150	29	59	13	10	00	233	03	147	49
4	00	153	09	62	05	10	12	235	38	150	57
4	12	155	48	64	57	10	24	238	52	154	07
4	24	158	28	67	47	10	36	240	49	157	17
4	36	161	09	70	36	10	48	243	24	160	30
4	48	163	49	73	24	11	00	245	59	163	43
5	00	166	31	76	11	11	12	248	35	166	57
5	12	169	13	78	58	11	24	251	11	170	12
5	24	171	54	81	44	11	36	253	49	173	28
5	36	174	35	84	30	11	48	256	26	176	44
5	48	177	18	87	15	12	00	259	06	180	00
6	00	180	00	90	00	12	12	261	45	183	16

TABLE 9. (*Contd.*) Latitude Degree **26** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **26** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	264	29	186	32	18	24	8	16	275	30
12	36	267	09	189	48	18	36	12	22	278	16
12	48	269	53	193	03	18	48	16	27	281	02
13	00	272	39	196	17	19	00	20	28	283	49
13	12	275	27	199	30	19	12	24	27	286	36
13	24	278	17	202	43	19	24	28	22	289	24
13	36	281	10	205	53	19	36	32	14	292	13
13	48	284	06	209	03	19	48	36	00	295	03
14	00	287	04	212	11	20	00	39	43	297	55
14	12	290	06	215	18	20	12	43	22	300	47
14	24	293	11	218	23	20	24	46	56	303	41
14	36	296	19	221	26	20	36	50	26	306	37
14	48	299	32	224	28	20	48	53	51	309	33
15	00	302	49	227	28	21	00	57	11	312	32
15	12	306	09	230	27	21	12	60	28	315	32
15	24	309	34	233	23	21	24	63	41	318	34
15	36	313	04	236	19	21	36	66	49	321	37
15	48	316	38	239	13	21	48	69	54	324	42
16	00	320	17	242	05	22	00	72	56	327	49
16	12	324	00	244	57	22	12	75	54	330	57
16	24	327	46	247	47	22	24	78	50	334	07
16	36	331	38	250	36	22	36	81	43	337	17
16	48	335	33	253	24	22	48	84	33	340	30
17	00	339	32	256	11	23	00	87	21	343	43
17	12	343	33	258	58	23	12	90	07	346	57
17	24	347	38	261	44	23	24	92	51	350	12
17	36	351	44	264	30	23	36	95	31	353	28
17	48	355	52	267	15	23	48	98	15	356	44
18	00	360	00	270	00	24	00	100	54	360	00
18	12	4	08	272	45						

TABLE 9. (*Contd.*) Latitude Degree 27 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 27 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	101	23	0	00	6	12	182	41	92	45
0	12	104	02	3	16	6	24	185	21	95	30
0	24	106	38	6	32	6	36	188	02	98	16
0	36	109	15	9	48	6	48	191	29	101	02
0	48	111	51	13	03	7	00	193	23	103	49
1	00	114	26	16	17	7	12	196	02	106	36
1	12	117	01	19	30	7	24	198	43	109	24
1	24	119	35	22	43	7	36	201	22	112	13
1	36	122	11	25	58	7	48	204	01	115	03
1	48	124	44	29	03	8	00	206	39	117	55
2	00	127	19	32	11	8	12	209	18	120	47
2	12	129	54	35	18	8	24	211	55	123	41
2	24	132	28	38	23	8	36	214	33	126	37
2	36	135	04	41	26	8	48	217	09	129	33
2	48	137	39	44	28	9	00	219	45	132	32
3	00	140	15	47	28	9	12	222	21	135	32
3	12	142	51	50	27	9	24	224	56	138	34
3	24	145	27	53	23	9	36	227	32	141	37
3	36	148	05	56	19	9	48	230	06	144	42
3	48	150	42	59	13	10	00	232	41	147	49
4	00	153	21	62	05	10	12	235	16	150	57
4	12	155	59	64	57	10	24	237	49	154	07
4	24	158	38	67	47	10	36	240	25	157	17
4	36	161	17	70	36	10	48	242	59	160	30
4	48	163	58	73	24	11	00	245	34	163	43
5	00	166	37	76	11	11	12	248	09	166	57
5	12	168	31	78	58	11	24	250	45	170	12
5	24	171	58	81	44	11	36	253	22	173	28
5	36	174	39	84	30	11	48	255	58	176	44
5	48	177	19	87	15	12	00	258	37	180	00
6	00	180	00	90	00	12	12	261	16	183	16

TABLE 9. *(Contd.)* Latitude Degree 27 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 27 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	263	56	186	32	18	24	8	22	275	30
12	36	266	33	189	48	18	36	12	31	278	16
12	48	269	23	193	03	18	48	16	38	281	02
13	00	272	08	196	17	19	00	20	42	283	49
13	12	274	55	199	30	19	12	24	43	286	36
13	24	278	46	202	43	19	24	28	41	289	24
13	36	280	38	205	53	19	36	32	34	292	13
13	48	283	36	209	03	19	48	36	23	295	03
14	00	286	33	212	11	20	00	40	08	297	55
14	12	289	35	215	18	20	12	43	48	300	47
14	24	292	40	218	23	20	24	47	24	303	41
14	36	295	49	221	26	20	36	50	53	306	37
14	48	299	01	224	28	20	48	53	58	309	33
15	00	302	19	227	28	21	00	57	41	312	32
15	12	306	02	230	27	21	12	60	59	315	32
15	24	309	07	233	23	21	24	64	11	318	34
15	36	312	36	236	19	21	36	67	20	321	37
15	48	316	12	239	13	21	48	70	25	324	42
16	00	319	52	242	05	22	00	73	27	327	49
16	12	323	37	244	57	22	12	76	24	330	57
16	24	327	26	247	47	22	24	79	22	334	07
16	36	331	19	250	36	22	36	81	14	337	17
16	48	335	17	253	24	22	48	85	05	340	30
17	00	339	18	256	11	23	00	87	52	343	43
17	12	343	22	258	58	23	12	90	37	346	57
17	24	347	29	261	44	23	24	93	27	350	12
17	36	351	38	264	30	23	36	96	04	353	28
17	48	355	50	267	15	23	48	98	44	356	44
18	00	360	00	270	00	24	00	101	23	360	00
18	12	4	10	272	45						

TABLE 9. *(Contd.)* Latitude Degree 28 North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 28 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	101	52	0	00	6	12	182	40	92	45
0	12	104	30	3	16	6	24	185	19	95	30
0	24	107	06	6	32	6	36	187	59	98	16
0	36	109	42	9	48	6	48	190	38	101	02
0	48	112	17	13	03	7	00	193	17	103	49
1	00	114	06	16	17	7	12	195	56	106	36
1	12	117	24	19	30	7	24	198	34	109	24
1	24	120	00	22	43	7	36	201	12	112	13
1	36	122	17	25	53	7	48	203	51	115	03
1	48	125	07	29	03	8	00	206	28	117	55
2	00	127	40	32	11	8	12	209	04	120	47
2	12	130	14	35	18	8	24	211	41	123	41
2	24	133	50	38	23	8	36	214	17	126	37
2	36	135	39	41	26	8	48	216	52	129	33
2	48	137	57	44	28	9	00	219	28	132	32
3	00	140	32	47	28	9	12	222	03	135	32
3	12	143	08	50	27	9	24	224	21	138	34
3	24	145	43	53	23	9	36	226	10	141	37
3	36	148	19	56	19	9	48	229	46	144	42
3	48	150	56	59	13	10	00	232	20	147	49
4	00	153	32	62	05	10	12	234	53	150	57
4	12	156	09	64	57	10	24	237	43	154	07
4	24	158	48	67	47	10	36	240	00	157	17
4	36	161	26	70	36	10	48	242	36	160	30
4	48	164	04	73	24	11	00	245	54	163	43
5	00	166	43	76	11	11	12	247	43	166	57
5	12	169	22	78	58	11	24	250	18	170	12
5	24	172	01	81	44	11	36	252	54	173	28
5	36	174	41	84	30	11	48	255	30	176	44
5	48	177	20	87	15	12	00	258	08	180	00
6	00	180	00	90	00	12	12	260	46	183	16

TABLE 9. (*Contd.*) Latitude Degree 28 North
வாக்கியம் 9. (தொடர்ச்சி) அகூாம்சம் பாகை 28 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	263	27	186	32	18	24	8	24	275	30
12	36	266	09	189	48	18	36	12	47	278	16
12	48	268	52	193	03	18	48	16	50	281	02
13	00	271	37	196	17	19	00	20	57	283	49
13	12	274	25	199	30	19	12	25	00	286	36
13	24	277	15	202	43	19	24	29	00	289	24
13	36	280	07	205	53	19	36	32	56	292	13
13	48	283	02	209	03	19	48	36	47	295	03
14	00	286	01	212	11	20	00	40	33	297	55
14	12	289	03	215	18	20	12	44	14	300	47
14	24	292	08	218	23	20	24	47	51	303	41
14	36	295	18	221	26	20	36	51	23	306	37
14	48	298	31	224	28	20	48	54	49	309	33
15	00	301	49	227	28	21	00	58	11	312	32
15	12	305	11	230	27	21	12	61	29	315	32
15	24	308	37	233	23	21	24	64	42	318	34
15	36	312	09	236	19	21	36	67	52	321	37
15	48	315	46	239	13	21	48	70	57	324	42
16	00	319	27	242	05	22	00	73	59	327	49
16	12	323	13	244	57	22	12	76	58	330	57
16	24	327	04	247	47	22	24	79	53	334	07
16	36	331	00	250	36	22	36	82	45	337	17
16	48	335	00	253	24	22	48	85	35	340	30
17	00	339	03	256	11	23	00	88	23	343	43
17	12	343	10	258	58	23	12	91	08	346	57
17	24	347	13	261	44	23	24	93	51	350	12
17	36	351	36	264	30	23	36	96	33	353	28
17	48	355	46	267	15	23	48	99	14	356	44
18	00	360	00	270	00	24	00	101	52	360	00
18	12	. 4	14	272	45						

TABLE 9. (*Contd.*) Latitude Degree **29** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **29** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	101	21	0	00	6	12	181	38	92	45
0	12	104	58	3	16	6	24	185	16	95	30
0	24	107	34	6	32	6	36	187	55	98	16
0	36	110	10	9	48	6	48	190	33	101	02
0	48	112	44	13	03	7	00	193	11	103	49
1	00	115	17	16	17	7	12	195	49	106	36
1	12	117	51	19	30	7	24	198	26	109	24
1	24	120	20	22	43	7	36	201	04	112	13
1	36	122	57	25	53	7	48	203	40	115	03
1	48	125	30	29	03	8	00	206	17	117	55
2	00	128	02	32	11	8	12	208	52	120	47
2	12	130	36	35	18	8	24	211	26	123	41
2	24	133	09	38	23	8	36	214	02	126	37
2	36	135	42	41	26	8	48	216	37	129	33
2	48	138	16	44	28	9	00	219	11	132	32
3	00	140	49	47	28	9	12	222	11	135	32
3	12	143	23	50	27	9	24	224	18	138	34
3	24	145	58	53	23	9	36	226	51	141	37
3	36	148	34	56	19	9	48	229	24	144	42
3	48	151	08	59	13	10	00	231	58	147	49
4	00	153	43	62	05	10	12	234	30	150	57
4	12	156	20	64	57	10	24	237	03	154	07
4	24	158	56	67	47	10	36	239	40	157	17
4	36	161	34	70	36	10	48	242	09	160	30
4	48	164	11	73	24	11	00	244	43	163	43
5	00	166	49	76	11	11	12	247	16	166	57
5	12	169	27	78	58	11	24	249	50	170	12
5	24	172	05	81	44	11	36	252	26	173	28
5	36	174	44	84	30	11	48	255	02	176	44
5	48	178	22	87	15	12	00	258	39	180	00
6	00	180	00	90	00	12	12	260	16	183	16

TABLE 9. (Contd.) Latitude Degree **29** North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **29** வடக்கு

Siderial Time நட்சத்திர மேஷாரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர மேஷாரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	262	56	186	32	18	24	8	34	275	30
12	36	265	38	189	48	18	36	12	49	278	16
12	48	268	20	193	03	18	48	17	03	281	02
13	00	271	05	196	17	19	00	21	13	283	49
13	12	273	53	199	30	19	12	25	18	286	36
13	24	276	42	202	43	19	24	29	20	289	24
13	36	279	35	205	53	19	36	33	18	292	13
13	48	282	26	209	03	19	48	37	12	295	03
14	00	285	28	212	11	20	00	40	59	297	55
14	12	288	30	215	18	20	12	44	42	300	47
14	24	291	35	218	23	20	24	48	20	303	41
14	36	294	45	221	26	20	36	52	53	306	37
14	48	297	59	224	28	20	48	55	20	309	33
15	00	301	17	227	28	21	00	58	43	312	32
15	12	304	40	230	27	21	12	62	01	315	32
15	24	307	08	233	23	21	24	65	15	318	34
15	36	311	40	236	19	21	36	68	25	321	37
15	48	315	18	239	13	21	48	71	30	324	42
16	00	319	01	242	05	22	00	74	32	327	49
16	12	322	48	244	57	22	12	77	34	330	57
16	24	326	42	247	47	22	24	80	25	334	07
16	36	330	40	250	36	22	36	83	18	337	17
16	48	334	42	253	24	22	48	86	07	340	30
17	00	338	48	256	11	23	00	88	55	343	43
17	12	342	57	258	58	23	12	91	40	346	57
17	24	347	11	261	44	23	24	94	22	350	12
17	36	351	26	264	30	23	36	97	04	353	28
17	48	355	43	267	15	23	48	99	44	356	44
18	00	360	00	270	00	24	00	101	21	360	00
18	12	4	17	272	45						

TABLE 9. (*Contd.*) Latitude Degree **30** North

வாக்கியம் 9. (தொடர்ச்சி.) அகூாம்சம் பாகை **30** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	102	52	0	00	6	12	182	37	92	45
0	12	104	58	3	16	6	24	185	14	95	30
0	24	108	03	6	32	6	36	187	51	98	16
0	36	110	38	9	48	6	48	190	28	101	02
0	48	113	37	13	03	7	00	193	05	103	49
1	00	115	44	16	17	7	12	195	41	106	36
1	12	118	17	19	30	7	24	198	17	109	24
1	24	120	50	22	43	7	36	200	53	112	13
1	36	123	22	25	53	7	48	203	28	115	03
1	48	125	53	29	03	8	00	206	13	117	55
2	00	128	25	32	11	8	12	208	29	120	47
2	12	130	57	35	18	8	24	211	13	123	41
2	24	133	29	38	23	8	36	213	46	126	37
2	36	136	02	41	26	8	48	216	20	129	33
2	48	138	34	44	28	9	00	218	52	132	32
3	00	141	08	47	28	9	12	221	26	135	32
3	12	143	40	50	27	9	24	223	58	138	34
3	24	146	14	53	23	9	36	226	31	141	37
3	36	148	47	56	19	9	48	229	03	144	42
3	48	151	31	59	13	10	00	231	35	147	49
4	00	153	47	62	05	10	12	234	07	150	57
4	12	156	32	64	57	10	24	236	38	154	07
4	24	159	07	67	47	10	36	239	10	157	17
4	36	161	43	70	36	10	48	241	43	160	30
4	48	164	19	73	24	11	00	244	16	163	43
5	00	166	55	76	11	11	12	246	23	166	57
5	12	169	32	78	58	11	24	249	22	170	12
5	24	172	09	81	44	11	36	251	57	173	28
5	36	174	46	84	30	11	48	255	02	176	44
5	48	177	23	87	15	12	00	257	08	180	00
6	00	180	00	90	00	12	12	259	46	183	16

TABLE 9. (*Contd.*) Latitude Degree **30** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **30** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	262	25	186	52	18	24	8	41	275	30
12	36	265	06	189	48	18	36	12	59	278	16
12	48	267	49	193	03	18	48	17	16	281	02
13	00	270	33	196	17	19	00	21	28	283	49
13	12	273	19	199	30	19	12	25	37	286	36
13	24	276	09	202	43	19	24	29	42	289	24
13	36	279	01	205	53	19	36	33	42	292	13
13	48	281	56	209	03	19	48	37	37	295	03
14	00	284	54	212	11	20	00	41	37	297	55
14	12	287	56	215	18	20	12	45	11	300	47
14	24	291	01	218	23	20	24	48	53	303	41
14	36	294	12	221	26	20	36	52	24	306	37
14	48	297	26	224	28	20	48	55	53	309	33
15	00	300	45	227	28	21	00	59	15	312	32
15	12	304	07	230	27	21	12	62	34	315	32
15	24	307	36	233	23	21	24	65	48	318	34
15	36	311	07	236	19	21	36	68	59	321	37
15	48	314	49	239	13	21	48	72	04	324	42
16	00	318	23	242	05	22	00	75	06	327	49
16	12	322	23	244	57	22	12	78	04	330	57
16	24	326	18	247	47	22	24	80	59	334	07
16	36	330	18	250	36	22	36	83	51	337	17
16	48	334	23	253	24	22	48	86	41	340	30
17	00	338	32	256	11	23	00	89	27	343	43
17	12	342	44	258	58	23	12	92	11	346	57
17	24	347	01	261	44	23	24	94	54	350	12
17	36	351	19	264	30	23	36	97	35	353	28
17	48	355	39	267	15	23	48	100	14	356	44
18	00	360	00	270	00	24	00	102	52	360	00
18	12	4	21	272	45						

TABLE 9. (*Contd.*) Latitude Degree **31** North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **31** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	103	22	0	00	6	12	182	33	92	45
0	12	105	58	3	16	6	24	185	12	95	30
0	24	108	32	6	32	6	36	187	48	98	16
0	36	111	39	9	48	6	48	190	23	101	02
0	48	113	39	13	03	7	00	192	58	103	49
1	00	116	11	16	17	7	12	195	33	106	36
1	12	118	43	19	30	7	24	198	07	109	24
1	24	121	15	22	43	7	36	200	43	112	13
1	36	123	46	25	53	7	48	203	17	115	03
1	48	126	17	29	03	8	00	205	51	117	55
2	00	128	48	32	11	8	12	208	24	120	47
2	12	131	19	35	18	8	24	210	58	123	41
2	24	133	50	38	23	8	36	213	31	126	37
2	36	136	21	41	26	8	48	216	03	129	33
2	48	138	53	44	28	9	00	218	36	132	32
3	00	141	24	47	28	9	12	221	07	135	32
3	12	143	57	50	27	9	24	223	39	138	34
3	24	146	29	53	23	9	36	226	10	141	37
3	36	149	02	56	19	9	48	228	41	144	42
3	48	151	36	59	13	10	00	231	12	147	49
4	00	154	09	62	05	10	12	233	43	150	57
4	12	156	43	64	57	10	24	236	14	154	07
4	24	159	17	67	47	10	36	238	45	157	17
4	36	161	53	70	36	10	48	241	17	160	30
4	48	164	27	73	24	11	00	243	49	163	43
5	00	167	02	76	11	11	12	246	21	166	57
5	12	169	37	78	58	11	24	248	54	170	12
5	24	172	12	81	44	11	36	251	28	173	28
5	36	174	48	84	30	11	48	254	02	176	44
5	48	177	27	87	15	12	00	256	38	180	00
6	00	180	00	90	00	12	12	259	15	183	16

TABLE 9. *(Contd.)* Latitude Degree **31** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **31** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	261	54	186	32	18	24	8	48	275	30
12	36	264	34	189	48	18	36	13	10	278	16
12	48	267	15	193	03	18	48	17	29	281	02
13	00	269	59	196	17	19	00	21	25	283	49
13	12	272	46	199	30	19	12	25	57	286	36
13	24	275	35	202	43	19	24	30	04	289	24
13	36	278	27	205	53	19	36	34	06	292	13
13	48	281	22	209	03	19	48	38	04	295	03
14	00	284	19	212	11	20	00	41	30	297	55
14	12	287	21	215	18	20	12	45	40	300	47
14	24	290	27	218	23	20	24	49	21	303	41
14	36	293	37	221	26	20	36	52	56	306	37
14	48	296	52	224	28	20	48	56	25	309	33
15	00	300	11	227	28	21	00	59	49	312	32
15	12	303	35	230	27	21	12	63	08	315	32
15	24	307	04	233	23	21	24	66	23	318	34
15	36	310	39	236	19	21	36	69	38	321	37
15	48	314	20	239	13	21	48	72	39	324	42
16	00	318	30	242	05	22	00	75	41	327	49
16	12	321	56	244	57	22	12	78	38	330	57
16	24	325	54	247	47	22	24	81	33	334	07
16	36	329	56	250	36	22	36	84	25	337	17
16	48	334	03	253	24	22	48	87	14	340	30
17	00	338	35	256	11	23	00	90	01	343	43
17	12	342	31	258	58	23	12	92	45	346	57
17	24	346	50	261	44	23	24	95	26	350	12
17	36	351	12	264	30	23	36	98	06	353	28
17	48	355	35	267	15	23	48	100	45	356	44
18	00	360	00	270	00	24	00	103	22	360	00
18	12	4	25	272	45						

TABLE 9. *(Contd.)* Latitude Degree 32 North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 32 வடக்கு

Siderial Time நட்சத்திர வேளை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர வேளை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	103	49	0	00	6	12	182	35	92	45
0	12	106	24	3	16	6	24	185	09	95	30
0	24	108	57	6	32	6	36	187	44	98	16
0	36	111	31	9	48	6	48	190	19	101	02
0	48	113	24	13	03	7	00	190	58	103	49
1	00	116	35	16	17	7	12	195	27	106	36
1	12	119	05	19	30	7	24	198	01	109	24
1	24	121	36	22	43	7	36	200	34	112	13
1	36	124	06	25	53	7	48	203	08	115	03
1	48	126	36	29	03	8	00	205	41	117	55
2	00	129	11	32	11	8	12	208	14	120	47
2	12	131	37	35	18	8	24	210	46	123	41
2	24	133	07	38	23	8	36	213	18	126	37
2	36	136	38	41	26	8	48	215	49	129	33
2	48	139	09	44	28	9	00	218	20	132	32
3	00	141	40	47	28	9	12	220	51	135	32
3	12	144	11	50	27	9	24	223	22	138	34
3	24	146	24	53	23	9	36	226	53	141	37
3	36	149	14	56	19	9	48	228	23	144	42
3	48	151	46	59	13	10	00	230	49	147	49
4	00	154	19	62	05	10	12	233	24	150	57
4	12	156	52	64	57	10	24	235	54	154	07
4	24	159	26	67	47	10	36	238	24	157	17
4	36	161	59	70	36	10	48	240	55	160	30
4	48	164	33	73	24	11	00	243	25	163	43
5	00	169	02	76	11	11	12	246	36	166	57
5	12	169	41	78	58	11	24	248	29	170	12
5	24	172	16	81	44	11	36	251	03	173	28
5	36	174	51	84	30	11	48	253	36	176	44
5	48	177	25	87	15	12	00	256	11	180	00
6	00	180	00	90	00	12	12	259	26	183	16

TABLE 9. (*Contd.*) Latitude Degree 32 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 32 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	261	25	186	32	18	24	8	55	275	30
12	36	264	04	189	48	18	36	13	21	278	16
12	48	266	46	193	03	18	48	17	43	281	02
13	00	269	29	196	17	19	00	22	02	283	49
13	12	272	14	199	30	19	12	27	17	286	36
13	24	275	04	202	43	19	24	30	27	289	24
13	36	277	54	205	53	19	36	34	31	292	13
13	48	280	49	209	03	19	48	38	29	295	03
14	00	283	53	212	11	20	00	42	22	297	55
14	12	286	48	215	18	20	12	46	10	300	47
14	24	289	54	218	23	20	24	49	52	303	41
14	36	293	04	221	26	20	36	53	27	306	37
14	48	296	19	224	28	20	48	56	58	309	33
15	00	299	38	227	28	21	00	60	22	312	32
15	12	303	02	230	27	21	12	63	41	315	32
15	24	306	33	233	23	21	24	66	56	318	34
15	36	310	08	236	19	21	36	70	06	321	37
15	48	313	50	239	13	21	48	73	12	324	42
16	00	317	38	242	05	22	00	76	07	327	49
16	12	321	31	244	57	22	12	79	11	330	57
16	24	325	29	247	47	22	24	82	05	334	07
16	36	329	33	250	36	22	36	84	56	337	17
16	48	332	43	253	24	22	48	87	46	340	30
17	00	337	58	256	11	23	00	90	31	343	43
17	12	342	17	258	58	23	12	93	14	346	57
17	24	346	39	261	44	23	24	95	56	350	12
17	36	351	05	264	30	23	36	98	35	353	28
17	48	355	32	267	15	23	48	100	34	356	44
18	00	360	00	270	00	24	00	103	49	360	00
18	12	4	28	272	45						

TABLE 9. (*Contd.*) Latitude Degree **33** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **33** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	104	24	0	00	6	12	182	30	92	45
0	12	106	58	3	16	6	24	185	39	95	30
0	24	109	31	6	32	6	36	187	39	98	16
0	36	112	04	9	48	6	48	190	23	101	02
0	48	114	35	13	03	7	00	192	46	103	49
1	00	117	06	16	17	7	12	195	19	106	36
1	12	119	35	19	30	7	24	197	51	109	24
1	24	122	05	22	43	7	36	200	23	112	13
1	36	124	32	25	53	7	48	202	55	115	03
1	48	127	04	29	03	8	00	205	26	117	55
2	00	129	33	32	11	8	12	207	58	120	47
2	12	132	03	35	18	8	24	210	28	123	41
2	24	134	32	38	23	8	36	212	59	126	37
2	36	137	02	41	26	8	48	215	29	129	33
2	48	139	31	44	28	9	00	217	59	132	32
3	00	142	01	47	28	9	12	220	29	135	32
3	12	144	31	50	27	9	24	222	58	138	34
3	24	147	01	53	23	9	36	225	28	141	37
3	36	149	32	56	19	9	48	227	57	144	42
3	48	152	02	59	13	10	00	230	27	147	49
4	00	154	34	62	05	10	12	232	56	150	57
4	12	157	05	64	57	10	24	235	28	154	07
4	24	159	37	67	47	10	36	237	55	157	17
4	36	162	09	70	36	10	48	240	25	160	30
4	48	164	41	73	24	11	00	242	54	163	43
5	00	167	14	76	11	11	12	245	25	166	57
5	12	169	47	78	58	11	24	247	56	170	12
5	24	172	21	81	44	11	36	250	29	173	28
5	36	175	21	84	30	11	48	253	02	176	44
5	48	177	30	87	15	12	00	255	36	180	00
6	00	180	00	90	00	12	12	258	13	183	16

TABLE 9. (Contd.) Latitude Degree 33 North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 33 வடக்கு

Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	260	49	186	32	18	24	9	03	275	30
12	36	263	28	189	48	18	36	13	32	278	16
12	48	266	09	193	03	18	48	17	59	281	02
13	00	268	51	196	17	19	00	22	21	283	49
13	12	271	37	199	30	19	12	26	39	286	36
13	24	274	25	202	43	19	24	30	51	289	24
13	36	277	16	205	53	19	36	34	59	292	13
13	48	280	11	209	03	19	48	39	00	295	03
14	00	283	08	212	11	20	00	42	55	297	55
14	12	286	09	215	18	20	12	46	44	300	47
14	24	289	15	218	23	20	24	50	14	303	41
14	36	292	25	221	26	20	36	54	03	306	37
14	48	295	40	224	28	20	48	57	34	309	33
15	00	299	00	227	28	21	00	61	00	312	32
15	12	302	26	230	27	21	12	64	20	315	32
15	24	305	57	233	23	21	24	67	35	318	34
15	36	309	46	236	19	21	36	70	45	321	37
15	48	313	16	239	13	21	48	73	51	324	42
16	00	317	05	242	05	22	00	76	52	327	49
16	12	321	00	244	57	22	12	79	49	330	57
16	24	325	01	247	47	22	24	82	44	334	07
16	36	329	09	250	36	22	36	85	35	337	17
16	48	333	21	253	24	22	48	88	23	340	30
17	00	337	39	256	11	23	00	91	09	343	43
17	12	342	01	258	58	23	12	93	51	346	57
17	24	346	28	261	44	23	24	96	32	350	12
17	36	350	57	264	30	23	36	99	11	353	28
17	48	355	28	267	15	23	48	101	47	356	44
18	00	360	00	270	00	24	00	104	24	360	00
18	12	4	32	272	45						

TABLE 9. (*Contd.*) Latitude Degree 34 North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 34 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	104	56	0	00	6	12	182	32	92	45
0	12	107	29	3	16	6	24	185	04	95	30
0	24	110	01	6	32	6	36	187	36	98	16
0	36	112	33	9	48	6	48	190	12	101	02
0	48	115	03	13	03	7	00	192	39	103	49
1	00	117	34	16	17	7	12	195	10	106	36
1	12	120	02	19	30	7	24	197	41	109	24
1	24	122	31	22	43	7	36	200	13	112	13
1	36	125	00	25	53	7	48	202	44	115	03
1	48	127	28	29	03	8	00	205	13	117	55
2	00	129	57	32	11	8	12	207	44	120	47
2	12	132	25	35	18	8	24	210	13	123	41
2	24	134	54	38	23	8	36	212	43	126	37
2	36	137	22	41	26	8	48	215	12	129	33
2	48	139	50	44	28	9	00	217	41	132	32
3	00	142	19	47	28	9	12	220	10	135	32
3	12	144	48	50	27	9	24	222	38	138	34
3	24	147	17	53	23	9	36	225	06	141	37
3	36	149	47	56	19	9	48	227	35	144	42
3	48	152	16	59	13	10	00	230	03	147	49
4	00	154	47	62	05	10	12	232	32	150	57
4	12	157	16	64	57	10	24	235	00	154	07
4	24	159	47	67	47	10	36	237	29	157	17
4	36	162	19	70	36	10	48	239	58	160	30
4	48	164	50	73	24	11	00	242	26	163	43
5	00	167	21	76	11	11	12	244	57	166	57
5	12	169	48	78	58	11	24	247	27	170	12
5	24	172	24	81	44	11	36	249	59	173	28
5	36	174	56	84	30	11	48	252	31	176	44
5	48	177	28	87	15	12	00	255	04	180	00
6	00	180	00	90	00	12	12	257	40	183	16

TABLE 9. (Contd.) Latitude Degree 34 North.

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 34 வடக்கு

Siderial Time நட்சத்திர வேளை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர வேளை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	260	16	186	32	18	24	9	11	275	30
12	36	262	54	189	48	18	36	13	44	278	16
12	48	265	35	193	03	18	48	18	15	281	02
13	00	268	16	196	17	19	00	22	40	283	49
13	12	271	01	199	30	19	12	27	02	286	36
13	24	273	49	202	43	19	24	31	16	289	24
13	36	276	39	205	53	19	36	35	26	292	13
13	48	279	33	209	03	19	48	39	20	295	03
14	00	282	31	212	11	20	00	43	26	297	55
14	12	285	31	215	18	20	12	47	17	300	47
14	24	288	38	218	23	20	24	51	01	303	41
14	36	291	48	221	26	20	36	54	39	306	37
14	48	295	03	224	28	20	48	58	11	309	33
15	00	298	23	227	28	21	00	61	37	312	32
15	12	301	49	230	27	21	12	64	57	315	32
15	24	305	21	233	23	21	24	68	12	318	34
15	36	308	59	236	19	21	36	71	22	321	37
15	48	312	43	239	13	21	48	74	29	324	42
16	00	316	34	242	05	22	00	77	29	327	49
16	12	320	30	244	57	22	12	80	27	330	57
16	24	324	34	247	47	22	24	83	21	334	07
16	36	328	44	250	36	22	36	86	11	337	17
16	48	332	58	253	24	22	48	88	59	340	30
17	00	337	20	256	11	23	00	91	44	343	43
17	12	341	45	258	58	23	12	94	25	346	57
17	24	346	16	261	44	23	24	97	06	350	12
17	36	350	49	264	30	23	36	99	44	353	28
17	48	355	24	267	15	23	48	102	20	356	44
18	00	360	00	270	00	24	00	104	56	360	00
18	12	4	36	272	45						

TABLE 9. (*Contd.*) Latitude Degree 35 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 35 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	105	29	0	00	6	12	182	31	92	45
0	12	108	01	3	16	6	24	185	02	95	30
0	24	110	32	6	32	6	36	187	32	98	16
0	36	113	03	9	48	6	48	190	03	101	02
0	48	115	32	13	03	7	00	192	33	103	49
1	00	118	02	16	17	7	12	195	03	106	36
1	12	120	30	19	30	7	24	197	33	109	24
1	24	122	58	22	43	7	36	200	02	112	13
1	36	125	26	25	53	7	48	202	32	115	03
1	48	127	53	29	03	8	00	205	02	117	55
2	00	130	21	32	11	8	12	208	00	120	47
2	12	132	48	35	18	8	24	209	59	123	41
2	24	135	15	38	23	8	36	212	27	126	37
2	36	137	42	41	26	8	48	214	55	129	33
2	48	140	10	44	28	9	00	217	23	132	32
3	00	142	37	47	28	9	12	219	50	135	32
3	12	145	05	50	27	9	24	222	18	138	34
3	24	147	33	53	23	9	36	224	45	141	37
3	36	150	01	56	19	9	48	227	12	144	42
3	48	152	00	59	13	10	00	229	39	147	49
4	00	154	58	62	05	10	12	232	07	150	57
4	12	157	28	64	57	10	24	234	34	154	07
4	24	159	58	67	47	10	36	237	02	157	17
4	36	162	27	70	36	10	48	239	30	160	30
4	48	164	57	73	24	11	00	241	58	163	43
5	00	167	27	76	11	11	12	244	28	166	57
5	12	169	57	78	58	11	24	246	57	170	12
5	24	172	28	81	44	11	36	249	28	173	28
5	36	174	58	84	30	11	48	251	59	176	44
5	48	177	29	87	15	12	00	254	31	180	00
6	00	180	00	90	00	12	12	257	06	183	16

TABLE 9. (*Contd.*) Latitude Degree 35 North

வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை 35 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	259	41	186	32	18	24	9	21	275	30
12	36	262	19	189	48	18	36	13	57	278	16
12	48	264	58	193	03	18	48	18	31	281	02
13	00	267	40	196	17	19	00	23	00	283	49
13	12	270	24	199	30	19	12	27	25	286	36
13	24	273	11	202	43	19	24	32	44	289	24
13	36	276	01	205	53	19	36	35	55	292	13
13	48	278	55	209	03	19	48	40	02	295	03
14	00	281	52	212	11	20	00	44	00	297	55
14	12	284	54	215	18	20	12	47	52	300	47
14	24	287	59	218	23	20	24	51	38	303	41
14	36	291	09	221	26	20	36	55	16	306	37
14	48	294	24	224	28	20	48	58	48	309	33
15	00	297	44	227	28	21	00	62	16	312	32
15	12	301	12	230	27	21	12	65	36	315	32
15	24	304	44	233	23	21	24	68	51	318	34
15	36	308	22	236	19	21	36	72	01	321	37
15	48	312	03	239	13	21	48	75	06	324	42
16	00	316	00	242	05	22	00	78	08	327	49
16	12	319	58	244	57	22	12	81	05	330	57
16	24	324	05	247	47	22	24	83	59	334	07
16	36	327	16	250	36	22	36	86	49	337	17
16	48	332	35	253	24	22	48	89	36	340	30
17	00	337	00	256	11	23	00	92	20	343	43
17	12	341	29	258	58	23	12	95	02	346	57
17	24	346	03	261	44	23	24	97	41	350	12
17	36	350	39	264	30	23	36	100	19	353	28
17	48	355	20	267	15	23	48	102	54	356	44
18	00	360	00	270	00	24	00	105	29	360	00
18	12	4	40	272	45						

TABLE 9. *(Contd.)* Latitude Degree **36** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **36** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	106	01	0	00	6	12	182	29	92	45
0	12	108	33	3	16	6	24	184	59	95	30
0	24	111	04	6	32	6	36	187	36	98	16
0	36	113	34	9	48	6	48	189	58	101	02
0	48	116	02	13	03	7	00	192	26	103	49
1	00	118	31	16	17	7	12	194	55	106	36
1	12	120	58	19	30	7	24	197	24	109	24
1	24	123	25	22	43	7	36	199	52	112	13
1	36	125	52	25	53	7	48	202	21	115	03
1	48	128	19	29	03	8	00	204	49	117	55
2	00	130	44	32	11	8	12	207	13	120	47
2	12	133	10	35	18	8	24	209	43	123	41
2	24	135	37	38	23	8	36	212	11	126	37
2	36	137	28	41	26	8	48	214	38	129	33
2	48	140	29	44	28	9	00	217	04	132	32
3	00	142	56	47	28	9	12	219	31	135	32
3	12	145	22	50	27	9	24	222	32	138	34
3	24	147	49	53	23	9	36	224	23	141	37
3	36	150	17	56	19	9	48	226	50	144	42
3	48	152	47	59	13	10	00	229	16	147	49
4	00	155	11	62	05	10	12	231	41	150	57
4	12	157	39	64	57	10	24	234	08	154	07
4	24	160	08	67	47	10	36	236	35	157	17
4	36	162	36	70	36	10	48	239	02	160	30
4	48	165	05	73	24	11	00	241	29	163	43
5	00	167	34	76	11	11	12	243	58	166	57
5	12	170	03	78	58	11	24	246	26	170	12
5	24	172	24	81	44	11	36	248	56	173	28
5	36	175	01	84	30	11	48	251	27	176	44
5	48	177	31	87	15	12	00	253	59	180	00
6	00	180	00	90	00	12	12	256	32	183	16

TABLE 9. (*Contd.*) Latitude Degree **36** North
வாக்கியம் 9. (தொடர்ச்சி.) அக்ஷாம்சம் பாகை **36** வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	259	07	186	32	18	24	9	29	275	30
12	36	261	43	189	48	18	36	14	11	278	16
12	48	264	22	193	03	18	48	18	49	281	02
13	00	267	03	196	17	19	00	23	22	283	49
13	12	269	47	199	30	19	12	27	50	286	36
13	24	272	33	202	43	19	24	32	11	289	24
13	36	275	23	205	53	19	36	36	26	292	13
13	48	278	15	209	03	19	48	40	34	295	03
14	00	281	12	212	11	20	00	44	35	297	55
14	12	284	13	215	18	20	12	48	29	300	47
14	24	287	18	218	23	20	24	52	16	303	41
14	36	290	28	221	26	20	36	55	59	306	37
14	48	293	44	224	28	20	48	59	28	309	33
15	00	297	05	227	28	21	00	62	55	312	32
15	12	300	32	230	27	21	12	66	16	315	32
15	24	304	01	233	23	21	24	69	32	318	34
15	36	307	44	236	19	21	36	72	42	321	37
15	48	311	31	239	13	21	48	75	47	324	42
16	00	315	25	242	05	22	00	78	48	327	49
16	12	319	26	244	57	22	12	81	45	330	57
16	24	323	34	247	47	22	24	84	37	334	07
16	36	327	49	250	36	22	36	87	27	337	17
16	48	332	10	253	24	22	48	90	13	340	30
17	00	336	38	256	11	23	00	92	57	343	43
17	12	341	11	258	58	23	12	95	38	346	57
17	24	345	49	261	44	23	24	98	17	350	12
17	36	350	31	264	30	23	36	100	53	353	28
17	48	355	14	267	15	23	48	103	28	356	44
18	00	360	00	270	00	24	00	106	01	360	00
18	12	4	46	272	45						

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1865 N. ப			1866 N. ப			1867 N. ப			1869 N. ப			1870 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	44	36	18	43	53	18	42	41	18	44	42	18	43	44
11	19	24	01	19	23	04	19	22	06	19	24	07	19	23	10
21	20	03	27	20	02	29	20	01	32	20	03	33	20	01	36
31	20	40	53	20	41	55	20	40	57	20	42	59	20	42	01
Fe பிப் 10	21	22	18	21	21	20	21	20	23	21	22	24	21	21	27
20	22	01	44	22	00	46	21	59	48	22	01	50	22	00	52
Ma மார் 2	22	41	09	22	40	12	22	39	14	22	41	15	22	40	18
12	23	20	35	23	19	37	23	18	39	23	20	41	23	19	43
22	0	00	00	23	59	03	23	58	05	0	00	06	23	59	09
Ap ஏப் 1	0	39	26	0	38	28	0	37	30	0	39	32	0	38	34
11	1	18	51	1	17	54	1	16	56	1	18	57	1	18	00
21	1	58	17	1	57	19	1	56	21	1	58	23	1	57	24
May மே 1	2	37	42	2	36	45	2	35	47	2	37	48	2	36	51
11	3	17	08	3	16	10	3	15	13	3	17	14	3	16	16
21	3	56	33	3	55	36	3	54	38	3	56	39	3	55	42
31	4	35	59	4	35	01	4	34	04	4	36	05	4	35	08
Ju ஜூ 10	5	15	25	5	14	27	5	13	29	5	15	31	5	14	33
20	5	54	50	5	53	52	5	52	55	5	54	56	5	53	59
30	6	34	16	6	33	18	6	32	20	6	34	22	6	34	24
July ஜூலை 10	7	13	41	7	12	44	7	11	46	7	13	47	7	12	50
20	7	53	07	7	52	09	7	51	12	7	53	19	7	52	15
30	8	32	32	8	31	35	8	30	37	8	32	38	8	31	41
Au ஆக 9	9	11	58	9	11	00	9	10	03	9	12	04	9	11	07
19	9	51	23	9	50	26	9	49	28	9	51	30	9	50	32
29	10	30	49	10	29	51	10	28	54	10	30	55	10	29	58
Sep செப் 8	11	10	15	11	09	17	11	08	19	11	10	21	11	09	23
18	11	49	40	11	48	42	11	47	45	11	49	46	11	48	49
28	12	29	06	12	28	08	12	27	10	12	29	12	12	28	14
Oct அக் 8	13	08	31	13	07	33	13	06	36	13	08	37	13	07	40
18	13	47	57	13	46	59	13	46	01	13	48	03	13	47	05
28	14	27	22	14	26	24	14	25	27	14	27	28	14	26	31
Nov நவ 7	15	06	48	15	05	50	15	04	52	15	06	54	15	05	56
17	15	46	13	15	45	16	15	44	18	15	46	19	15	45	22
27	16	25	39	16	24	41	16	23	43	16	25	45	16	24	47
Dec டிச 7	17	05	04	17	04	07	17	03	09	17	05	10	17	04	13
17	17	44	30	17	43	32	17	42	35	17	44	36	17	43	39
27	18	23	55	18	22	58	18	22	00	18	24	01	18	23	04

N. B. See the end of this table, வாக்கியம் முடிவைப் பார்க்கவும்.

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1871 N. ப			1873 N. ப			1874 N. ப			1875 N. ப			1877 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	42	47	18	44	49	18	43	52	18	42	55	18	44	58
11	19	22	13	19	24	15	19	23	18	19	22	21	19	24	23
21	20	01	38	20	03	40	20	02	43	20	01	46	20	03	49
31	20	41	04	20	43	6	20	42	09	20	41	12	20	43	14
Fe பிப் 10	21	20	29	21	22	31	21	21	34	21	20	37	21	22	40
20	21	59	55	22	01	57	21	01	00	22	00	03	22	02	06
Ma மார் 2	22	39	20	22	41	22	22	40	25	22	39	29	22	41	31
12	23	18	46	23	20	48	23	19	51	23	18	54	23	20	57
22	23	58	11	0	00	14	23	59	16	23	58	20	0	00	22
Ap ஏப் 1	0	37	37	0	39	39	0	38	42	0	37	45	0	39	48
11	1	17	02	1	19	05	1	18	08	1	17	11	1	19	13
22	1	56	28	1	58	30	1	57	33	1	56	36	1	58	39
May மே 1	2	35	54	2	37	56	2	36	59	2	36	02	2	38	04
11	3	15	19	3	17	21	3	16	24	3	15	27	3	17	30
21	3	54	45	3	56	47	3	55	50	3	54	53	3	56	55
31	4	34	10	4	36	12	4	35	15	4	34	19	4	36	21
Ju ஜூ 10	5	13	36	5	15	38	5	14	41	5	13	44	5	15	47
20	5	53	01	5	55	04	5	54	07	5	53	10	5	55	12
30	6	32	27	6	34	29	6	33	32	6	32	35	6	34	38
July ஜூலை 10	7	11	53	7	13	55	7	12	58	7	12	01	7	14	03
20	7	51	18	8	53	20	7	52	23	7	51	27	7	53	29
30	8	30	44	8	32	46	8	31	49	8	30	42	8	32	55
Au ஆக 9	9	10	09	9	12	11	9	11	14	9	10	18	9	12	20
19	9	49	35	9	51	37	9	50	40	9	49	43	9	51	46
29	10	29	00	10	31	03	10	26	09	10	29	09	10	31	11
Sep செப் 8	11	08	26	11	10	28	11	09	31	11	08	34	11	10	37
18	11	47	51	11	49	54	11	48	57	11	48	00	11	50	02
28	12	27	17	12	29	19	12	28	22	12	27	25	12	29	28
Oct அக் 8	13	06	42	13	08	45	13	07	48	13	06	51	13	08	53
18	13	46	08	13	48	10	13	47	13	13	46	16	13	48	19
28	14	25	33	14	27	36	14	26	39	14	25	42	14	27	44
Nov நவ 7	15	04	59	15	07	01	15	06	04	15	05	08	15	07	10
17	15	44	25	15	46	27	15	45	30	15	44	37	15	46	36
27	16	23	50	16	25	52	16	24	55	16	23	59	16	26	01
Dec டிச 7	17	03	16	17	05	18	17	04	21	17	03	24	17	05	27
17	17	42	41	17	44	44	17	43	47	17	42	50	17	44	52
27	18	22	07	18	24	09	18	23	12	18	22	15	18	24	18

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1878 N. ப			1879 N. ப			1881 N. ப			1882 N. ப			1883 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	44	01	18	43	04	18	45	06	18	44	08	18	43	11
11	19	23	26	19	22	29	19	24	31	19	23	34	19	22	37
21	20	02	52	20	01	55	20	03	57	20	03	00	20	02	02
31	20	42	17	20	41	20	20	43	23	20	42	25	20	41	28
Fe பிப் 10	21	21	43	21	20	46	21	22	48	21	21	51	21	20	53
20	22	01	09	22	00	11	22	02	14	22	01	16	20	00	19
Ma மார் 2	22	40	34	22	39	37	22	41	39	20	40	42	22	39	44
12	23	20	00	23	19	03	23	21	05	23	20	07	23	19	10
22	23	59	25	23	58	28	0	00	30	23	59	33	23	58	35
Ap ஏப் 1	0	38	51	0	37	54	0	39	56	0	38	58	0	38	01
11	1	18	16	1	17	19	1	19	21	1	18	24	1	17	26
21	1	57	42	1	56	45	1	58	47	1	57	49	1	56	52
May மே 1	2	37	07	2	36	10	2	38	12	2	37	15	2	36	17
11	3	16	33	3	15	36	3	17	38	3	16	41	3	15	43
21	3	55	58	3	55	01	3	57	03	3	56	06	3	55	09
31	4	35	24	4	34	27	4	36	29	4	35	32	4	34	34
Ju ஜூ 10	5	14	50	5	10	53	5	15	55	5	14	57	5	14	00
20	5	54	15	5	53	19	5	55	20	5	54	23	5	53	25
30	6	33	41	6	32	44	6	34	46	6	33	48	6	32	51
July ஜூலை 10	7	13	06	7	12	09	7	14	11	7	13	14	7	12	16
20	7	52	32	7	51	35	7	53	37	7	52	39	7	51	42
30	8	31	58	8	31	00	8	33	02	8	32	05	8	31	08
Au ஆக 9	9	11	23	9	10	26	9	12	28	9	11	31	9	10	33
19	9	50	49	9	49	52	9	51	54	9	50	56	9	49	59
29	10	30	14	10	29	17	10	31	19	10	30	22	10	29	24
Sep செப் 8	11	09	40	11	08	43	11	10	43	11	09	47	11	08	50
18	11	49	05	11	48	08	11	50	10	11	49	13	11	48	15
28	12	28	31	12	27	34	12	29	36	12	28	38	12	27	41
Oct அக் 8	13	07	56	13	06	59	13	09	01	13	08	04	13	07	06
18	13	47	22	13	46	25	13	48	27	13	47	29	13	46	32
28	14	26	47	14	25	50	14	27	52	14	26	55	14	25	57
Nov நவ 7	15	06	13	15	05	16	15	07	18	15	06	20	15	05	23
17	15	45	39	15	44	41	15	46	43	15	45	46	15	44	48
27	16	25	04	16	24	07	16	26	09	16	25	11	16	24	14
Dec டிச 7	17	04	30	17	03	33	17	05	35	17	04	37	17	03	39
17	17	43	55	17	42	58	17	45	00	17	44	03	17	43	05
27	18	23	21	18	22	24	18	24	26	18	23	28	18	22	31

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1885 N. ப			1886 N. ப			1887 N. ப			1889 N. ப			1890 N. ப		
	H.	M.	S. மி.	H.	M.	S. மி.	H.	M.	S. மி.	H.	M.	S. மி.	H.	M.	S. மி.
Jan ஜன 1	18	45	12	18	44	15	18	43	17	18	45	19	18	44	21
11	19	24	38	19	23	40	19	22	43	19	24	44	19	23	47
21	20	04	03	20	03	06	20	02	08	20	04	10	20	03	13
31	20	43	29	20	42	31	20	41	34	20	43	35	20	42	38
Fe பிப் 10	21	23	55	21	21	57	21	20	59	21	23	01	21	22	04
20	22	02	20	21	01	22	22	00	25	22	02	26	22	01	29
Ma மார் 2	22	41	46	22	40	48	22	39	50	22	41	52	22	40	55
12	23	21	11	23	20	13	23	19	16	23	21	17	23	20	20
22	0	00	37	23	59	39	23	58	41	0	00	43	23	59	46
Ap ஏப் 1	0	40	02	0	39	05	0	38	07	0	40	08	0	39	11
11	1	19	28	1	18	30	1	17	32	1	19	34	1	18	37
21	1	58	53	1	57	56	1	56	58	1	59	00	1	58	02
May மே 1	2	38	19	2	37	21	2	36	24	2	38	25	2	37	28
11	3	17	44	3	16	47	3	15	49	3	17	51	3	16	54
21	3	57	10	3	56	12	3	55	15	3	57	16	3	56	19
31	4	36	35	4	35	38	4	34	40	4	36	42	4	35	45
Ju ஜூ 10	5	16	01	5	15	03	5	14	06	5	16	07	5	15	10
20	5	55	27	5	54	29	5	53	31	5	55	33	5	54	36
30	6	34	52	6	33	54	6	32	57	6	34	58	6	34	01
July ஜூலை 10	7	14	18	7	13	20	7	12	22	7	14	24	7	13	27
20	7	53	43	7	52	46	7	51	48	7	53	50	7	52	53
30	8	33	09	8	32	11	8	31	14	8	33	15	8	32	18
Au ஆக 9	9	12	34	9	11	37	9	10	39	9	12	41	9	11	44
19	9	52	00	9	51	02	9	50	05	9	52	16	9	51	09
29	10	31	25	10	30	28	10	29	30	10	31	32	10	30	35
Sep செப் 8	11	10	51	11	09	53	11	08	56	11	10	57	11	10	00
18	11	50	16	11	49	19	11	48	21	11	50	23	11	49	26
28	12	29	42	12	28	44	12	27	47	12	29	48	12	28	51
Oct அக் 8	13	09	07	13	08	10	13	07	12	13	09	14	13	08	17
18	13	48	33	13	47	35	13	46	38	13	48	39	13	47	43
28	14	27	59	14	27	01	14	26	03	14	28	05	14	27	08
Nov நவ 7	15	07	24	15	06	26	15	05	29	15	07	31	15	06	33
17	15	46	50	15	45	52	15	44	54	15	46	56	15	46	59
27	16	26	15	16	25	18	16	24	20	16	26	22	16	25	25
Dec டிச 7	17	05	41	17	04	43	17	03	46	17	05	47	17	04	51
17	17	45	06	17	44	09	17	43	11	17	45	13	17	44	16
27	18	24	32	18	23	34	18	22	37	18	24	38	18	23	41

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1891 N. ப H. M. S. ம. நி. ச.	1893 N. ப H. M. S. ம. நி. ச.	1894 N. ப H. M. S. ம. நி. ச.	1895 N. ப H. M. S. ம. நி. ச.	1897 N. ப H. M. S. ம. நி. ச.
Jan ஜன 1	18 43 24	18 45 26	18 44 29	18 43 32	18 45 35
11	19 22 50	19 24 52	19 23 55	19 22 58	19 25 01
21	20 02 15	20 04 18	20 03 21	20 02 24	20 04 26
31	20 41 41	20 43 43	20 42 46	20 41 49	20 43 52
Fe பிப் 10	21 21 06	21 23 09	21 22 12	21 21 15	21 23 17
20	22 00 32	22 02 34	22 01 37	22 00 40	22 02 43
Ma மார் 2	22 39 57	22 42 00	22 41 03	22 40 06	22 42 08
12	23 19 23	23 21 25	23 20 28	23 19 31	23 21 34
22	23 58 52	0 00 51	23 59 54	23 58 57	0 00 59
Ap ஏப் 1	0 38 14	0 40 16	0 39 19	0 38 22	0 40 25
11	1 17 39	1 19 42	1 18 45	1 17 48	1 19 51
21	1 57 05	1 59 07	1 58 10	1 57 14	1 59 16
May மே 1	2 36 31	2 38 33	2 37 36	2 36 39	2 38 42
11	3 15 56	3 17 59	3 17 02	3 16 05	3 18 07
21	3 55 22	3 57 24	3 56 27	3 55 30	3 57 33
31	4 34 47	4 36 50	4 35 53	4 34 56	4 36 58
Ju ஜூ 10	5 14 13	5 16 15	5 15 49	5 14 21	5 16 24
20	5 53 38	5 51 41	5 54 44	5 53 47	5 55 50
30	6 33 04	6 35 06	6 34 10	6 33 13	6 35 15
July ஜூலை 10	7 12 30	7 14 32	7 13 35	7 12 38	7 14 41
20	7 51 55	7 53 58	7 53 01	7 52 04	7 54 06
30	8 31 21	8 33 23	8 32 26	8 31 29	8 33 32
Au ஆக 9	9 10 46	9 12 49	9 11 52	9 10 55	9 12 57
19	9 50 12	9 52 14	9 51 17	9 50 20	9 52 23
29	10 29 37	10 31 40	10 30 43	10 29 46	10 31 49
Sep செப் 8	11 09 03	11 11 05	11 10 08	11 09 12	11 11 14
18	11 48 28	11 50 31	11 49 34	11 48 37	11 50 40
28	12 27 54	12 29 57	12 29 00	12 28 03	12 30 05
Oct அக் 8	13 07 20	13 09 22	13 08 25	13 07 28	13 09 31
18	13 46 45	13 48 48	13 47 51	13 46 54	13 48 56
28	14 26 11	14 28 13	14 27 16	14 26 19	14 28 22
Nov நவ 7	15 05 36	15 07 39	15 06 42	15 05 45	15 07 47
17	15 45 02	15 47 04	15 46 07	15 45 10	15 47 13
27	16 24 27	16 26 30	16 25 33	16 24 36	16 26 38
Dec டிச 7	17 03 53	17 05 55	17 04 58	17 04 02	17 06 04
17	17 43 18	17 45 21	17 44 24	17 43 27	17 45 30
27	18 22 44	18 24 47	18 23 50	18 22 53	18 44 55

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1898 N. ப			1899 N. ப			1900 N. ப			1901 N. ப			1902 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	44	38	18	43	41	18	42	44	18	41	46	18	40	49
11	19	24	04	19	23	06	19	22	09	19	21	12	19	20	14
21	20	03	29	20	02	32	20	01	35	20	00	37	19	59	40
31	20	42	55	20	41	58	20	41	00	20	40	03	20	39	05
Fe பிப் 10	21	22	20	21	21	23	21	20	26	21	19	29	21	18	31
20	22	01	46	22	00	49	21	59	51	21	58	54	21	57	56
Ma மார் 2	22	41	11	22	40	14	22	39	17	22	38	20	22	37	22
12	23	20	37	23	19	40	23	18	42	23	17	45	23	16	47
22	0	00	02	23	59	05	23	58	08	23	57	11	23	56	13
Ap ஏப் 1	0	39	28	0	38	31	0	37	33	0	36	36	0	35	38
11	1	18	53	1	17	56	1	16	59	1	16	02	1	15	04
21	1	58	19	1	57	22	1	56	24	1	55	27	1	54	29
May மே 1	2	37	45	2	36	47	2	35	50	2	34	53	2	33	55
11	3	17	10	3	16	13	3	15	16	3	14	18	3	13	21
21	3	56	36	3	55	38	3	54	41	3	53	44	3	52	46
31	4	36	01	4	35	04	4	34	07	4	33	09	4	32	12
Ju ஜூ 10	5	15	27	5	14	30	5	13	32	5	12	35	5	11	37
20	5	54	52	5	53	55	5	52	58	5	52	01	5	51	03
30	6	34	18	6	33	21	6	32	23	6	31	26	6	30	28
July ஜூலை 10	7	13	44	7	12	46	7	11	49	7	10	52	7	09	54
20	7	53	09	7	52	12	7	51	15	7	50	17	7	49	19
30	8	32	35	8	31	37	8	30	40	8	29	43	8	28	35
Au ஆக 9	9	12	00	9	11	03	9	10	06	9	09	08	9	08	11
19	9	51	26	9	50	29	9	49	31	9	48	34	9	47	36
29	10	30	51	10	29	54	10	28	57	10	27	59	10	27	02
Sep செப் 8	11	10	17	11	09	20	11	08	22	11	07	25	11	06	27
18	11	49	42	11	48	45	11	47	48	11	46	50	11	45	53
28	12	29	08	12	28	11	12	27	13	12	26	16	12	25	18
Oct அக் 8	13	08	34	13	07	36	13	06	39	13	05	42	13	04	44
18	13	47	59	13	47	02	13	46	04	13	45	07	13	44	09
28	14	27	25	14	26	27	14	25	30	14	24	32	14	23	35
Nov நவ 7	15	06	50	15	05	53	15	04	55	15	03	58	15	03	00
17	15	46	16	15	45	18	15	44	21	15	43	24	15	42	26
27	16	25	41	16	24	44	16	23	47	16	22	49	16	21	51
Dec டிச 7	17	05	07	17	04	10	17	03	12	17	02	15	17	01	17
17	17	44	32	17	43	35	17	42	38	17	41	40	17	40	43
27	18	23	58	18	23	01	18	22	03	18	21	06	18	20	08

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1903 N. ப			1905 N. ப			1906 N. ப			1907 N. ப			1909 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	39	51	18	41	52	18	40	55	18	39	57	18	41	59
11	19	19	06	19	21	18	19	20	20	19	19	23	19	21	24
21	19	58	42	20	00	44	19	59	46	19	58	48	20	00	50
31	20	38	08	20	40	09	20	39	11	20	38	14	20	40	16
Fe பிப் 10	21	17	33	21	19	35	21	18	37	21	17	39	21	19	41
20	21	56	59	21	59	00	21	58	02	21	57	05	21	59	07
Ma மார் 2	22	36	24	22	38	26	22	37	28	22	36	30	22	38	32
12	23	15	50	23	17	51	23	16	53	23	15	56	23	17	58
22	23	55	15	23	57	17	23	56	19	23	55	21	23	57	23
Ap ஏப் 1	0	34	41	0	36	42	0	35	44	0	34	47	0	36	49
11	1	14	06	1	16	08	1	15	10	1	14	12	1	16	14
21	1	53	32	1	55	33	1	54	35	1	53	28	1	55	40
May மே 1	2	32	57	2	34	59	2	34	01	2	33	04	2	35	05
11	3	12	23	3	14	24	3	13	27	3	12	29	3	14	31
21	3	51	48	3	53	50	3	52	52	3	51	55	3	53	27
31	4	31	14	4	33	15	4	32	18	4	31	20	4	33	32
Ju ஜூ 10	5	10	40	5	12	14	5	11	43	5	10	46	5	12	48
20	5	50	05	5	52	06	5	51	09	5	50	11	5	52	13
30	6	29	31	6	31	32	6	30	34	6	29	37	6	31	39
July ஜூலை 10	7	08	56	7	10	58	7	10	00	7	09	02	7	11	04
20	7	48	22	7	50	24	7	49	26	7	48	28	7	50	30
30	8	27	47	8	29	49	8	28	51	8	27	54	8	29	56
Au ஆக 9	9	07	13	9	09	14	9	08	17	9	07	19	9	09	21
19	9	46	38	9	48	40	9	47	42	9	46	45	9	48	47
29	10	26	04	10	28	05	10	27	08	10	26	10	10	28	12
Sep செப் 8	11	05	30	11	07	31	11	06	33	11	05	36	11	07	38
18	11	44	55	11	46	56	11	45	59	11	45	01	11	47	03
28	12	24	21	12	26	22	12	25	24	12	24	27	12	26	29
Oct அக் 8	13	03	46	13	05	47	13	04	50	13	03	52	13	05	54
18	13	43	12	13	45	13	13	44	15	13	43	18	13	45	20
28	14	22	37	14	24	38	14	23	41	14	22	43	14	24	45
Nov நவ 7	15	02	03	15	04	04	15	03	06	15	02	09	15	04	11
17	15	41	28	15	43	29	15	42	32	15	41	35	15	43	37
27	16	20	54	16	22	55	16	21	58	16	21	00	16	23	02
Dec டிச 7	17	00	19	17	02	20	17	01	23	17	00	26	17	02	28
17	17	39	45	17	41	46	17	40	49	17	39	51	17	41	53
27	18	19	10	18	21	11	18	20	14	18	19	17	18	21	19

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1910 N. ப			1911 N. ப			1913 N. ப			1914 N. ப			1915 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	41	02	18	40	05	18	42	07	18	41	10	18	40	13
11	19	20	27	19	19	50	19	21	33	19	20	36	19	19	39
21	19	59	53	19	58	56	20	00	58	20	00	01	19	59	04
31	20	39	18	20	38	21	20	40	24	20	39	27	20	38	30
Fe பிப் 10	21	18	44	21	17	47	21	19	49	21	18	52	21	17	55
20	21	58	09	21	57	12	21	59	15	21	58	18	21	57	21
Ma மார் 2	22	37	35	22	36	38	22	38	41	22	37	44	22	36	50
12	23	17	01	23	16	03	23	18	06	23	17	09	23	16	12
22	23	56	26	23	55	29	23	57	32	23	56	35	23	55	38
Ap ஏப் 1	0	35	52	0	34	55	0	36	57	0	36	00	0	35	03
11	1	15	17	1	14	20	1	16	23	1	15	26	1	14	29
21	1	54	43	1	53	46	1	55	48	1	54	51	1	53	54
May மே 1	2	34	08	2	33	11	2	35	14	2	34	17	2	33	20
11	3	13	34	3	12	37	3	14	39	3	13	42	3	12	45
21	3	52	59	3	52	02	3	54	05	3	53	08	3	52	11
31	4	32	25	4	31	28	4	33	31	4	32	34	4	31	37
Ju ஜூ 10	5	11	51	5	10	53	5	12	36	5	11	59	5	11	02
20	5	51	16	5	50	19	5	52	22	5	51	25	5	50	28
30	6	30	42	6	29	45	6	31	47	6	30	50	6	29	53
July ஜூலை 10	7	10	07	7	09	10	7	11	13	7	10	16	7	09	19
20	7	49	33	7	48	36	7	50	38	7	49	41	7	48	44
30	8	28	58	8	28	01	8	30	04	8	29	07	8	28	10
Au ஆக 9	9	08	24	9	07	27	9	09	30	9	08	33	9	07	36
19	9	47	50	9	46	52	9	48	55	9	47	58	9	47	01
29	10	27	15	10	26	18	10	28	21	10	27	24	10	26	27
Sep செப் 8	11	06	41	11	05	44	11	07	46	11	06	49	11	05	53
18	11	46	06	11	45	09	11	47	12	11	46	15	11	45	18
28	12	25	32	12	24	35	12	26	37	12	25	40	12	24	43
Oct அக் 8	13	04	57	13	04	00	13	06	03	13	05	06	13	04	09
18	13	44	23	13	43	26	13	45	28	13	44	31	13	43	34
28	14	23	48	14	22	51	14	24	54	14	23	57	14	23	00
Nov நவ 7	15	03	14	15	02	17	15	04	19	15	03	23	15	02	25
17	15	42	39	15	41	42	15	43	45	15	42	48	15	41	51
27	16	22	05	16	21	08	16	23	11	16	22	14	16	21	17
Dec டிசு 7	17	01	31	17	00	34	17	02	36	17	01	39	17	00	42
17	17	40	56	17	39	59	17	42	02	17	41	05	17	40	08
27	18	20	22	18	19	25	18	21	27	18	20	30	18	19	33

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1917 N. ப			1918 N. ப			1919 N. ப			1921 N. ப			1922 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	42	16	18	41	18	18	40	21	18	42	23	18	41	25
11	19	21	41	19	20	44	19	19	47	19	21	48	19	20	51
21	20	01	07	20	00	10	19	59	12	20	01	14	20	00	16
31	20	40	32	20	39	35	20	38	38	20	40	39	20	39	42
Fe பிப் 10	21	19	58	21	19	01	21	18	03	21	20	05	21	19	07
20	21	59	23	21	58	26	21	57	29	21	59	30	21	58	33
Ma மார் 2	22	38	49	22	37	52	22	36	54	22	38	00	22	37	58
12	23	18	15	23	17	17	23	16	20	23	18	21	23	17	24
22	23	57	40	23	56	43	23	55	45	23	57	47	23	56	49
Ap ஏப் 1	0	37	06	0	36	08	0	35	11	0	37	12	0	36	15
11	1	16	31	1	15	34	1	14	37	1	16	38	1	15	40
21	1	55	57	1	54	59	1	54	02	1	56	04	1	55	06
May மே 1	2	35	22	2	34	25	2	33	28	2	35	29	2	34	31
11	3	14	48	3	13	51	3	12	53	3	14	55	3	13	57
21	3	54	13	3	53	16	3	52	19	3	54	20	3	53	23
31	4	33	39	4	32	42	4	31	14	4	33	46	4	32	48
Ju ஜூ 10	5	13	04	5	12	07	5	11	10	5	13	11	5	12	14
20	5	52	30	5	51	33	5	50	35	5	52	37	5	51	39
30	6	31	56	6	30	58	6	30	01	6	32	02	6	31	05
July ஜூலை 10	7	11	21	7	10	24	7	09	27	7	11	28	7	10	30
20	7	50	47	7	49	50	7	48	52	7	50	54	7	49	56
30	8	30	12	8	29	15	8	28	18	8	30	19	8	29	21
Au ஆக 9	9	09	37	9	08	41	9	07	43	9	09	45	9	08	47
19	9	49	03	9	48	06	9	47	09	9	49	10	9	48	13
29	10	28	29	10	27	32	10	26	34	10	28	36	10	27	38
Sep செப 8	11	07	55	11	06	57	11	06	00	11	08	01	11	07	04
18	11	47	20	11	46	23	11	45	25	11	47	27	11	46	29
28	12	26	46	12	25	48	12	24	51	12	26	52	12	25	55
Oct அக் 8	13	06	11	13	05	14	13	04	06	13	06	18	13	05	20
18	13	45	37	13	44	39	13	43	42	13	45	43	13	44	46
28	14	25	04	14	24	05	14	23	07	14	25	09	14	24	11
Nov நவ 7	15	04	28	15	03	30	15	02	33	15	04	34	15	03	37
17	15	43	53	15	42	56	15	41	59	15	44	00	15	43	02
27	16	23	19	16	22	22	16	21	24	16	23	26	16	22	28
Dec டிச 7	17	02	44	17	01	47	17	00	50	17	02	51	17	01	53
17	17	42	10	17	41	13	17	40	15	17	42	17	17	41	19
27	18	21	36	18	20	38	18	19	41	18	21	42	18	20	45

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர நேரசார

M. Date மா. தேதி.	1923 N. ப			1925 N. ப			1926 N. ப			1927 N. ப			1929 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	40	28	18	42	29	18	41	31	18	40	34	18	42	36
11	19	19	53	19	21	54	19	20	57	19	20	00	19	22	02
21	19	59	19	20	01	20	20	00	23	19	59	25	20	01	27
31	20	38	43	20	40	16	20	39	48	20	38	51	20	40	53
Fe பிப் 10	21	18	10	21	20	11	21	19	14	21	18	16	21	20	18
20	21	57	35	21	59	37	21	58	39	21	57	42	21	59	44
Ma மார் 2	22	37	01	22	39	02	22	38	05	22	37	07	22	39	10
12	23	16	26	23	18	28	23	17	30	23	16	33	23	18	35
22	23	55	52	23	57	53	23	56	56	23	55	58	23	58	01
Ap ஏப் 1	0	35	17	0	37	19	0	36	21	0	35	24	0	37	26
11	1	14	43	1	16	44	1	15	47	1	14	49	1	16	52
21	1	54	08	1	56	01	1	55	12	1	54	15	1	56	17
May மே 1	2	33	34	2	35	35	2	34	38	2	33	41	2	35	43
11	3	13	00	3	15	01	3	14	03	3	13	06	3	15	08
21	3	52	25	3	54	26	3	53	29	3	40	42	3	54	34
31	4	31	51	4	33	52	4	32	55	4	31	57	4	33	59
Ju ஜூ ன 10	5	11	16	5	13	18	5	12	20	5	11	23	5	13	25
20	5	50	42	5	52	43	5	51	46	5	50	48	5	52	51
30	6	30	07	6	32	09	6	31	11	6	30	14	6	32	16
July ஜூலை 10	7	09	33	7	11	34	7	10	37	7	09	40	7	11	42
20	7	48	58	7	50	59	7	50	02	7	49	05	7	51	07
30	8	28	23	8	30	25	8	29	28	8	28	31	8	18	43
Au ஆக 9	9	07	50	9	09	51	9	08	54	9	07	56	9	09	58
19	9	47	15	9	49	17	9	48	19	9	47	22	9	49	24
29	10	26	41	10	28	42	10	27	45	10	26	47	10	38	50
Sep செப் 8	11	06	06	11	08	08	10	07	01	11	06	13	10	08	15
18	11	45	32	11	47	33	11	46	36	11	45	38	11	47	41
28	12	24	57	12	26	59	12	26	01	12	25	04	12	27	06
Oct அக் 8	13	04	23	13	06	24	13	05	27	13	04	29	13	06	32
18	13	43	48	13	45	50	13	44	52	13	43	55	13	45	57
28	14	23	14	14	25	15	14	24	18	14	23	21	14	25	23
Nov நவ 7	15	02	39	15	04	41	15	03	43	15	02	46	15	04	48
17	15	42	05	15	44	07	15	43	09	15	42	12	15	44	14
27	16	21	30	16	23	32	16	22	34	16	21	37	16	23	40
Dec டிசம் 7	17	00	56	17	02	57	17	02	00	17	01	03	17	03	05
17	17	40	22	17	42	23	17	41	26	17	40	28	17	42	31
27	18	19	47	18	21	49	18	20	51	18	19	54	18	21	56

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1930 N. ப			1931 M஧			1933 M஧			1934 M஧			1935 M஧		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி	ச.	ம.	நி.	க.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	11	39	6	38	44	6	40	46	6	39	49	6	38	52
11	19	21	01	7	18	09	7	20	12	7	19	15	7	18	18
21	20	00	30	7	57	35	7	59	37	7	58	40	7	57	43
31	20	39	56	8	37	01	8	39	03	8	38	06	8	37	09
Fe பிப் 10	21	19	21	9	16	26	9	18	29	9	17	32	9	16	34
20	21	58	47	9	55	52	9	57	54	9	56	57	9	56	00
Ma மார் 2	22	38	12	10	35	17	10	37	20	10	36	23	10	35	26
12	23	17	38	11	14	43	11	16	45	11	15	48	11	14	51
22	23	57	03	11	54	08	11	56	11	11	55	14	11	54	17
Ap ஏப் 1	0	36	29	12	33	34	12	35	36	12	34	39	12	33	42
11	1	15	55	13	12	59	13	15	02	13	14	05	13	13	08
21	1	55	20	13	52	25	13	54	27	13	53	30	13	52	33
May மே 1	2	34	46	14	31	50	14	33	52	14	32	56	14	31	59
11	3	14	11	15	11	16	15	13	18	15	12	21	15	11	24
21	3	53	37	15	50	42	15	52	44	15	15	47	15	50	50
31	4	33	02	16	30	07	16	32	01	16	31	13	16	30	15
Ju ஜூ 10	5	12	28	17	09	33	17	11	35	17	10	38	17	09	41
20	5	51	54	17	48	58	17	51	01	17	50	04	17	49	07
30	6	31	19	18	28	24	18	30	26	18	29	29	18	28	32
July ஜூலை 10	7	10	45	18	07	50	19	09	52	19	08	55	19	07	58
20	7	50	10	19	47	15	19	49	18	19	48	20	19	47	23
30	8	29	36	20	26	41	20	28	43	20	27	46	20	26	49
Au ஆக 9	9	09	01	21	06	06	21	08	09	21	07	12	21	06	15
19	9	48	27	21	45	32	21	47	34	21	46	37	21	45	40
29	10	27	53	22	24	57	22	27	00	22	26	03	22	25	06
Sep செப் 8	11	07	18	23	04	23	23	06	25	23	05	28	23	04	31
18	11	46	44	23	43	48	23	45	51	23	44	54	23	43	57
28	12	26	09	0	23	14	0	25	16	0	24	19	0	23	22
Oct அக் 8	13	05	35	1	02	39	1	04	42	1	03	45	1	02	48
18	13	45	00	1	42	05	1	44	07	1	43	10	1	42	13
28	14	24	26	2	21	31	2	23	33	2	22	36	2	21	39
Nov நவ 7	15	03	51	3	00	56	3	02	59	3	02	02	3	01	04
17	15	43	17	3	40	22	3	42	24	3	41	27	3	40	30
27	16	22	43	4	19	47	4	21	50	4	20	53	4	19	56
Dec டிச 7	17	02	08	4	59	15	5	01	15	5	00	18	4	59	21
17	17	41	34	5	38	38	5	40	41	5	39	44	5	38	47
27	18	20	59	6	18	04	6	20	06	6	19	09	6	18	12

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1937 M இ H. M. S. ம. நி. சை.	1938 M இ H. M. S. ம. நி. சை.	1939 M இ H. M. S. ம. நி. சை.	1941 M இ H. M. S. ம. நி. சை.
Jan ஜவ 1	6 40 54	6 39 57	6 39 00	6 41 41
11	7 20 20	7 19 23	7 18 25	7 20 26
21	7 59 46	7 58 48	7 57 51	7 59 52
31	8 39 11	8 38 14	8 37 16	8 39 18
Fe பெ 10	9 18 37	9 17 39	9 16 42	9 18 43
20	9 58 02	9 57 05	10 00 04	9 58 09
Ma மார் 2	10 37 28	10 36 30	10 35 33	10 37 34
12	11 16 53	11 15 56	11 14 58	11 17 00
22	11 56 19	11 55 21	11 54 24	11 56 25
Ap ஏப் 1	12 35 44	12 34 47	12 33 49	12 35 51
11	13 15 10	13 14 12	13 13 15	13 15 16
21	13 54 35	13 53 38	13 52 40	13 54 42
May மே 1	14 34 01	14 33 04	14 32 06	14 34 07
11	15 13 26	15 12 29	15 11 32	15 13 33
21	15 52 52	15 51 55	15 50 57	15 52 58
31	16 32 18	16 31 20	16 30 22	16 32 24
Ju ஜூ 10	17 11 43	17 10 46	17 09 48	17 11 50
20	17 51 09	17 50 11	17 49 14	17 51 15
30	18 30 34	18 29 37	18 28 39	18 30 41
July ஜூலை 10	19 10 00	19 09 02	19 08 05	19 10 06
20	19 49 25	19 48 28	19 47 30	19 49 32
30	20 28 51	20 27 54	20 26 56	20 28 57
Au ஆக 9	21 08 17	21 07 19	21 06 22	21 08 23
19	21 47 42	21 46 45	21 45 47	21 47 48
29	22 27 08	22 26 10	22 25 13	22 27 14
Sep செப்8	23 06 33	23 05 36	23 04 38	23 06 39
18	23 45 59	23 45 01	23 44 04	23 46 05
28	0 25 24	0 24 27	0 23 29	0 25 30
Oct அக் 8	1 04 50	1 03 52	1 02 55	1 04 56
18	1 44 15	1 43 18	1 42 20	1 44 22
28	2 23 41	2 22 43	2 21 46	2 23 47
Nov நவ 7	3 03 06	3 02 09	3 01 11	3 03 13
17	3 42 32	3 41 34	3 40 37	3 42 38
27	4 21 58	4 21 00	4 20 02	4 22 04
Dec டி ச 7	5 01 23	5 00 26	4 59 28	5 01 29
17	5 40 49	5 39 51	5 38 54	5 40 55
27	6 20 14	6 19 17	6 18 19	6 20 20

LEAP YEARS.

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1868 N. ப			1872 N. ப			1876 N. ப			1880 N. ப			1884 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி	ச.
Jan ஜன 1	18	41	43	18	41	50	18	41	58	18	42	07	18	42	13
11	19	21	09	19	21	15	19	21	24	19	21	32	19	21	39
21	20	00	34	20	00	41	20	00	49	20	00	58	20	01	05
31	20	40	00	20	40	06	20	40	15	20	40	23	20	40	30
Fe பிப் 10	21	19	25	21	19	32	21	19	40	21	19	49	21	19	56
20	21	58	51	21	58	58	21	59	06	21	59	14	21	59	21
Ma மார் 1	22	38	16	22	38	23	22	38	31	22	38	40	22	38	47
11	23	17	52	23	17	49	23	17	57	23	18	05	23	18	12
21	23	57	07	23	57	14	23	57	23	23	57	31	23	57	38
31	0	36	33	0	36	40	0	36	48	0	36	56	0	37	03
Ap ஏப் 10	1	15	58	1	16	05	1	16	14	1	16	22	1	16	29
20	1	55	24	1	55	31	1	55	39	1	55	48	1	55	54
30	2	34	49	2	34	56	2	35	05	2	35	13	2	35	20
May மே 10	3	14	15	3	14	22	3	14	30	3	14	39	3	14	45
20	3	53	40	3	53	47	3	53	56	3	54	04	3	54	11
30	4	33	06	4	33	13	4	33	21	4	33	30	4	33	37
Ju ஜூ 9	5	12	32	5	12	39	5	12	47	5	12	55	5	13	02
19	5	51	57	5	52	04	5	52	13	5	52	21	5	52	28
29	6	31	23	6	31	30	6	31	38	6	31	47	6	31	51
July ஜூலை 9	7	10	48	7	10	55	7	11	04	7	11	12	7	11	19
19	7	15	14	7	50	21	7	50	29	7	50	38	7	50	44
29	8	29	39	8	29	46	8	29	55	8	30	03	8	30	10
Au ஆக 8	9	09	05	9	09	12	9	09	20	9	09	29	9	09	35
18	9	48	31	9	48	38	9	48	46	9	48	54	9	49	01
28	10	27	56	10	28	03	10	28	12	10	28	20	10	28	25
Sep செப் 7	11	07	22	11	07	29	11	07	37	11	07	45	11	07	52
17	11	46	47	11	46	54	11	47	03	11	47	11	11	47	18
27	12	26	13	12	26	20	12	26	28	12	26	36	12	26	43
Oct அக் 7	13	05	38	13	05	45	13	05	54	13	06	02	13	06	09
17	13	45	04	13	45	11	13	45	19	13	45	28	13	45	34
27	14	24	29	14	24	36	14	24	45	14	24	53	14	25	00
Nov நவ 6	15	03	55	15	04	02	15	04	10	15	04	19	15	04	25
16	15	43	20	15	43	27	15	43	36	15	43	44	15	43	51
26	16	22	46	16	22	53	16	23	02	16	23	10	16	23	16
Dec டிச 6	17	02	11	17	02	19	17	02	27	17	02	35	17	02	42
16	17	41	37	17	41	44	17	41	53	17	42	01	17	42	07
26	18	21	03	18	21	10	18	21	18	18	21	26	18	21	33

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர வேளை

M. Date மா. தேதி.	1888 N. ப			1892 N. ப			1896 N. ப			1904 N. ப			1908 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	சை.	ம.	நி.	சை.	ம.	நி.	சை.	ம.	நி.	சை.	ம.	நி.	சை.
Jan ஜன 1	18	42	20	18	42	27	18	42	35	18	38	53	18	39	00
11	19	21	45	19	21	52	19	22	01	19	18	19	19	18	25
21	20	01	10	20	01	18	20	01	27	19	57	44	19	57	51
31	20	40	36	20	40	44	20	40	52	20	37	10	20	37	16
Fe பிப் 10	21	20	01	21	20	09	21	20	18	21	16	36	21	16	42
20	21	59	27	21	59	35	21	59	43	21	56	01	21	56	07
Ma மார் 1	22	38	52	22	39	00	22	39	09	22	35	27	22	35	33
11	23	18	18	23	18	26	23	18	34	23	14	52	23	14	58
21	23	57	43	23	57	51	23	58	00	23	54	18	23	54	24
31	0	37	09	0	37	17	0	37	26	0	33	43	0	33	50
Ap ஏப் 10	1	16	35	1	16	42	1	16	51	1	13	09	1	13	15
20	1	56	01	1	56	08	1	56	17	1	52	34	1	52	41
30	2	35	26	2	35	33	2	35	42	2	32	00	2	32	06
May மே 10	3	14	52	3	14	59	3	15	08	3	11	25	3	11	32
20	3	54	17	3	54	25	3	54	33	3	50	51	3	50	57
30	4	33	43	4	33	50	4	33	59	4	30	16	4	30	23
Ju ஜூ 9	5	13	08	5	13	16	5	13	24	5	09	42	5	09	48
19	5	52	34	5	52	41	5	52	50	5	49	07	5	49	14
29	6	31	59	6	32	07	6	32	16	6	28	33	6	28	40
July ஜூலை 9	7	11	25	7	11	33	7	11	41	7	07	59	7	08	05
19	7	50	51	7	50	58	7	51	07	7	47	24	7	47	31
29	8	30	16	8	30	24	8	30	33	8	26	50	8	26	56
Au ஆக 8	9	09	42	9	09	49	9	09	58	9	06	15	9	06	22
18	9	49	07	9	49	15	9	49	23	9	45	41	9	45	47
28	10	28	33	10	28	40	10	28	49	10	25	06	10	25	13
Sep செப் 7	11	07	58	11	08	06	11	08	15	11	04	32	11	04	38
17	11	47	24	11	47	31	11	47	40	11	43	57	11	44	04
27	12	26	49	12	26	57	12	27	06	12	23	23	12	23	29
Oct அக் 7	13	06	15	13	06	22	13	06	31	13	02	48	13	02	55
17	13	45	40	13	45	48	13	45	57	13	42	14	13	42	21
27	14	25	06	14	25	14	14	25	22	14	21	39	14	21	46
Nov நவ 6	15	04	32	15	04	39	15	04	48	15	01	05	15	01	12
16	15	43	57	15	44	05	15	44	13	15	40	31	15	40	37
26	16	23	23	16	23	30	16	23	39	16	19	56	16	20	03
Dec டிச 6	17	02	48	17	02	56	17	03	05	16	59	22	16	59	28
16	17	42	14	17	42	21	17	42	30	17	38	47	17	38	54
26	18	21	39	18	21	47	18	21	56	18	18	13	18	18	19

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1912 N. ப			1916 N. ப			1920 N. ப			1924 N. ப			1928 N. ப		
	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	39	08	18	39	16	18	39	24	18	39	30	18	39	37
11	19	18	33	19	18	42	19	18	49	19	18	55	19	19	02
21	19	57	59	19	58	07	19	58	15	19	58	21	19	58	28
31	20	37	24	20	37	33	20	37	40	20	33	50	20	37	53
Fe பிப் 10	21	16	50	21	16	58	21	17	06	21	17	12	21	17	19
20	21	56	15	21	56	24	21	56	31	21	56	37	21	56	45
Ma மார் 1	22	35	41	22	35	50	22	35	57	22	36	03	22	56	01
11	23	15	06	23	15	15	23	15	22	23	15	29	23	15	36
21	23	54	32	23	54	41	23	54	48	23	54	54	23	55	01
31	0	33	58	0	34	06	0	34	14	0	34	20	0	34	27
Ap ஏப் 10	1	13	23	1	13	32	1	13	39	1	13	45	1	13	52
20	1	52	49	1	52	57	1	53	05	1	53	11	1	53	18
30	2	32	14	2	32	23	2	32	30	2	32	06	2	32	43
MayமேI0	3	11	40	3	11	48	3	11	56	3	12	02	3	12	09
20	3	51	05	3	51	14	3	51	21	3	51	27	3	51	34
30	4	30	31	4	30	40	4	30	47	4	30	53	4	31	00
Ju ஜூ 09	5	09	36	5	10	05	5	10	12	5	10	18	5	10	26
19	5	49	22	5	49	31	5	49	38	5	49	44	5	49	51
July 29	6	28	48	6	28	56	6	29	03	6	29	10	6	29	17
ஜூலை 9	7	08	13	7	08	22	7	08	29	7	08	35	7	08	42
19	7	47	39	7	47	47	7	47	55	7	48	01	7	48	08
29	8	27	04	8	27	13	8	27	20	8	27	26	8	27	34
Au ஆக 8	9	06	30	9	06	39	9	06	46	9	06	52	9	06	59
18	9	45	56	9	46	04	9	46	11	9	46	17	9	46	25
28	10	25	21	10	25	30	10	25	37	10	25	43	10	25	50
Sep செப்7	11	04	47	11	04	55	11	05	02	11	05	08	11	05	16
17	11	44	12	11	44	21	11	44	28	11	44	34	11	44	41
27	12	23	18	12	23	46	12	23	53	12	23	59	12	24	07
Oct அக் 7	13	03	03	13	03	12	13	03	19	13	03	25	13	03	32
17	13	42	29	13	42	37	13	42	44	13	42	50	13	42	58
27	14	21	54	14	22	03	14	22	10	14	22	16	14	22	23
Nov நவ 6	15	01	20	15	01	28	15	01	35	15	01	41	15	01	49
16	15	40	45	15	40	54	15	41	01	15	41	07	15	41	14
26	16	20	11	16	20	20	16	20	27	16	20	33	16	20	40
Dec டிச 6	16	59	37	16	59	45	16	59	52	16	59	58	17	00	06
16	17	39	02	17	39	11	17	39	18	17	39	24	17	39	31
26	18	18	28	18	18	36	18	18	43	18	18	49	18	18	57

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1932 M இ			1936 M இ			1940 M இ		
	H.	M.	S.	H.	M.	S.	H.	M.	S.
	ம.	நி.	செ.	ம.	நி.	செ.	ம.	நி.	செ.
Jan ஜன 1	6	37	47	6	37	55	6	38	02
11	7	17	12	7	17	21	7	17	2
21	7	56	38	7	56	46	7	56	53
31	8	36	03	8	36	12	8	36	19
Fe பிப் 10	9	15	29	9	15	37	9	15	44
20	9	54	55	9	55	03	9	55	10
Ma மார் 1	10	34	20	10	34	28	10	34	3
11	11	13	46	11	13	54	11	14	01
21	11	53	11	11	53	20	11	53	26
31	12	32	37	12	32	35	12	32	52
Ap ஏப் 10	13	12	02	13	12	11	13	12	17
20	13	51	28	13	51	36	13	51	43
30	14	30	53	14	31	02	14	31	08
May மே 10	15	10	19	15	10	27	15	10	34
20	15	49	45	15	49	53	15	49	59
30	16	29	10	16	29	18	16	29	59
Ju ஜூ 9	17	08	36	17	08	44	17	08	51
19	17	48	01	17	48	10	17	48	16
29	18	27	27	18	27	35	18	27	42
July ஜூலை 9	19	06	52	19	07	01	19	07	07
19	19	46	18	19	46	26	19	46	33
29	20	25	44	20	25	52	20	25	58
Au ஆக 8	21	05	09	21	05	17	21	05	24
18	21	44	05	21	44	43	21	44	50
28	22	24	00	22	24	08	22	24	15
Sep செப் 7	23	03	26	23	03	34	23	03	41
17	23	42	51	23	43	00	23	43	06
27	0	22	17	0	22	25	0	22	32
Oct அக் 7	1	01	42	1	01	51	1	01	57
17	1	41	08	1	41	16	1	41	23
27	2	20	33	2	20	42	2	20	48
Nov நவ 6	2	59	59	3	00	07	3	00	14
16	3	39	25	3	39	33	3	39	39
26	4	18	50	4	18	58	4	19	05
Dec டிச 6	4	58	16	4	58	24	4	58	30
16	5	37	41	5	37	49	5	37	56
26	6	17	07	6	17	15	6	17	22

N.B. Siderial Time at 12 hr-0 m (Noon) in Greenwich=N. Siderial Time at 0 hr-0 m. (Midnight) in Greenwich=M. N shows that Siderial Time is given at 12 hrs-0 m (Noon) at Greenwich. M in the date column stands shows that Siderial Time is given at 0 hrs-0 ms. (Midnight) at Greenwich. M in the date column stands for Month. Maximum Siderial Time=24 hrs-0 m-0 sd. Siderial Time is generally given at intervals of ten days; for intermediate dates it must be calculated by proportion.

குறிப்பு:—நட்சத்திர ஹோரை-கிரீன்விச்-பகல் மணி 12-0 கிலிஷத்திற்கு=ப. எனப்படுவது நட்சத்திர ஹோரை கிரீன்விச்சில் நடு இரவு மணி 12-0 கிலிஷத்திற்கு=இ. எனப்படுவது நட்சத்திர ஹோரை கிரீன்விச்சில் இரவு மணி 12-0 கிலிஷத்திற்குக் கொடுக்கப்பட்டது என்று தெரிகிறது. இ-என்பது நட்சத்திர ஹோரை மணி 12-0 கிலிஷத்திற்குக் கொடுக்கப்பட்டது என்று தெரிகிறது. மா-என்பது மாதம். மேற்க நட்சத்திர ஹோரை மணி=24 மணி-0 கிலிஷம்-0 சக்கண்டு.

TABLE 11. வாக்கியம் 11.

Geographical (Terrestrial) Latitude and Longitude of Important Places In India and Other Countries.

இந்தியாவிலும் இதர தேசங்களிலும் உள்ள முக்கிய பட்டணங்களின் அகூாம்சமும் (**Latitude**), ரேகாம்சமும் (**Longitude**).

இடங்களின் பெயர்கள்.	Names of Places.	அகூாம்சம். Latitude.			ரேகாம்சம். Longitude.		
		°	′		°	′	
Aden	ஏடன்	12	45	N. உ.	45	02	E. கி.
Adoni	ஆதோணி	15	39	,,	77	18	,,
Agra	ஆக்ரா	27	09	,,	78	04	,,
Ahamedabad	அமதாபாத்	23	01	,,	72	37	,,
Ahmednagar	அமத்நகர்	19	04	,,	74	47	,,
Ajmere	அஜ்மீர்	26	26	,,	74	43	,,
Akola	அகோலா	20	41	,,	77	01	,,
Akyab	அக்யாபு	20	09	,,	92	49	,,
Alipore	அலிப்பூர்	22	31	,,	88	23	,,
Allahabad	அலஹாபாத்	25	27	,,	81	53	,,
Alleppy	அலப்பி	9	26	,,	76	32	,,
Amraoti	அம்ரோடி	20	55	,,	77	47	,,
Anantapur	அனந்தபூர்	14	03	,,	75	14	,,
Anakapalle	அனகபல்லி	17	42	,,	83	02	,,
Arcot	ஆற்காடு	12	48	,,	79	32	,,
Assam	ஆசாம்	26	01	,,	92	01	,,
Baghdad	பாக்டாட்டு	33	21	,,	44	23	,,
Balasore	பாலசோர்	21	31	,,	86	59	,,
Bangalore	பங்களூர்	12	59	,,	77	38	,,
Banganapalle	பங்கனபல்லி	15	21	,,	78	16	,,
Baroda	பரோடா	22	14	,,	73	00	,,
Bassein	பேசின்	19	15	,,	72	14	,,
Belgaum	பெல்காம்	15	53	,,	74	35	,,
Bellary	பெல்லாரி	15	10	,,	76	58	,,
Benares	காசி	25	20	,,	83	04	,,
Berhampore	பர்ஹம்பூர்	19	19	,,	84	56	,,
Beypore	பெய்பூர்	11	09	,,	75	52	,,
Bezwada	பெஜவாடா	16	27	,,	80	43	,,

இடங்களின் பெயர்கள்.	Names of Places.	அகூரம்சம். Latitude.			ரேகாம்சம். Longitude.		
		°	′		°	′	
Bhagalpore	பாகல்பூர்	25	16	N. உ.	87	03	E. கி.
Bharatpur	பர்ட்பூர்	27	10	,,	77	36	,,
Bijapur	பிஜபூர்	16	51	,,	75	05	,,
Bikaner	பிக்காநீர்	28	02	,,	73	23	,,
Bimlipatam	பீமிலிப்பட்டணம்	17	56	,,	83	31	,,
Bobbili	பொப்பிலி	18	34	,,	83	31	,,
Bodinayakkanur	போடி.நாயக்கனூர்	10	00	,,	78	06	,,
Bombay	பம்பாய்	18	53	36	72	48	54
Basra	பசரா	30	31	,,	47	51	,,
Broach	ப்ரோச்சு	21	46	,,	72	59	,,
Calcutta	கல்கத்தா	22	35	,,	88	24	,,
Calingapatam	கள்ளிக்கோட்டை	11	04	,,	75	48	,,
Calicut (in Ganjam)	களிங்கப்பட்டணம்	18	19	,,	84	08	,,
Cambay	காம்பே	21	01	,,	72	31	,,
Cannanoore	கண்ணனூர்	11	48	,,	75	21	,,
Cawnpore	கான்பூர்	26	27	,,	80	23	,,
Chicacole	சிக்காகோல்	18	12	,,	83	58	,,
Chingleput	செங்கல்பட்டு	12	42	,,	80	02	,,
Chittoore	சித்தூர்	13	13	,,	79	10	,,
Chitaldrug	சிட்டல்டுரூக்	14	13	,,	72	25	,,
Cocanada	காக்கிநாடா	16	56	,,	82	14	,,
Cochin	கொச்சி	9	57	,,	76	16	,,
Coimbatore	கொயம்பத்தூர்	11	01	,,	77	01	,,
Colombo	கொளம்பு	6	55	,,	79	55	,,
Conjeeveram	காஞ்சீபுரம்	12	50	,,	79	07	,,
Cooch Behar	கூச்பிஹார்	26	18	,,	89	27	,,
Coonoor	கூனூர்	11	15	,,	76	48	,,
Cuddalore	கூடலூர்	11	42	,,	79	48	,,
Cuddapah	கடப்பை	14	27	,,	78	52	,,
Cumbum	கம்பம்	15	39	,,	79	09	,,
Cuttack	கட்டாக்	20	47	,,	85	56	,,
Darbhanga	டர்பங்கா	25	11	,,	85	58	,,
Darjeeling	டார்ஜீலிங்	27	04	,,	88	19	,,
Dehra Dun	டேராடன்	30	20	,,	78	05	,,
Delhi	டில்லி	28	40	,,	77	18	,,

இடங்களின் பெயர்கள்.	Names of Places.	அக்ஷாம்சம். Latitude.			ரேகாம்சம். Longitude.		
		°	′		°	′	
Dehra Ismail Khan	டேராஹிஸ்மயில் கான்	31	52	N. உ.	70	57	E. கி.
Dharmapuri	தர்மபுரி	12	12	,,	78	12	,,
Dharwar	டார்வார்	15	22	,,	75	03	,,
Diamond Island	டயம்மண்டுதீவு	15	53	,,	94	20	,,
Dindigul	திண்டுக்கல்	10	16	,,	78	00	,,
Dodabetta	தொத்தபெட்டா	11	26	,,	76	41	,,
Dum Dum	டம்டம்	22	44	,,	88	39	,,
Dwaraka	துவாரகை	22	15	,,	69	06	,,
Elloore	எல்லூர்	16	42	,,	81	06	,,
Ernakulam	எறணக்குளம்	9	58	,,	76	18	,,
Erode	சோடு	11	20	,,	77	45	,,
Galle	காலி	6	01	,,	80	14	,,
Ganjam	கஞ்சம்	19	24	,,	85	08	,,
Gauhati	கௌஹத்தி	26	10	,,	91	47	,,
Gaya	கயா	24	48	,,	85	02	,,
Ginjee	செஞ்சி	12	18	,,	79	45	,,
Gooty	குத்தி	15	06	,,	77	41	,,
Gopalpur	கோபாலபுரம்	19	15	,,	84	56	,,
Gudiyattam	குடியாத்தம்	13	00	,,	78	52	,,
Gujarat	கூர்ஜரம்	22	19	,,	71	00	,,
Greenwich	கிரீன்விச்சு	51	28	38.2,,	00	00	,,
Guntakal	குண்டகல்	15	07	,,	77	31	,,
Guntur	குண்டூர்	16	17	,,	80	28	,,
Gwalior	குவாலியர்	26	20	,,	78	07	,,
Howrah	ஹௌரா	22	42	,,	88	20	,,
Hubli	ஹுப்லி	15	24	,,	75	12	,,
Hyderabad (Deccan)	அயித்திராபாத் (தக்ஷணமாகாணம்)	17	19	,,	78	29	,,
Hyderabad (Sind)	ஐதராபாத் (சிண்டு)	25	22	,,	68	23	,,
Indore	இந்தூர்	22	43	,,	75	49	,,
Ispahan	இஸ்பஹான்	32	39	,,	51	43	,,
Jaffna	ஜாப்னு	9	39	,,	80	00	,,
Jaipur	ஜெயப்பூர்	26	54	,,	75	51	,,
Jamnagar	ஜாம்நகர்	22	26	,,	70	16	,,

இடங்களின் பெயர்கள்.	Names of Places.	அகூரார்சம். Latitude.			ரேகாம்சம். Longitude.		
		°	′		°	′	
Jhansi	ஜான்சி	25	26	N. உ.	78	36	E. கி.
Jodhpur	ஜோட்பூர்	26	16	,,	73	03	,,
Jubbalpore	ஜப்பல்பூர்	23	09	,,	79	58	,,
Kabul	காபூல்	34	31	,,	69	17	,,
Kalyan	கல்யான்	19	14	,,	73	09	,,
Karachi	காராச்சி	24	52	,,	67	05	,,
Khanpur (Bhagalpur State)	கான்பூர் (பகறல் பூர் ராஜ்ஜிபம்)	30	10	,,	71	17	,,
Kirkee	கர்கீ	18	39	,,	73	53	,,
Kodaikanal	கோடைக்கானல்	10	14	,,	77	33	,,
Kolhapur	கோலாப்பூர்	16	34	,,	74	14	,,
Krishnagar	கிருஷ்ணகர்	23	25	,,	88	34	,,
Kumbakonam	கும்பகோணம்	10	56	,,	79	24	,,
Kurnool	கர்னூல்	15	51	,,	70	06	,,
Lahore	லாகூர்	31	33	,,	74	20	,,
Lucknow	லக்கௌ	26	54	,,	80	58	,,
Madras	மதரூல்	13	04	,,	80	15	,,
Madura	மதுரை	09	54	,,	78	09	,,
Mainpuri	மெயின்பூரி	27	13	,,	79	02	,,
Mandalay	மாண்டலே	21	58	,,	96	07	,,
Mangalore	மங்களூர்	12	51	,,	74	52	,,
Mannargudi	மன்னர்குடி	10	42	,,	79	26	,,
Marmagoa	மார்மகோவா	15	24	,,	73	49	,,
Masulipatam	மசூலிப்பட்டணம்	16	08	,,	81	11	,,
Maymyo	மெயிமியோ	22	00	,,	96	29	,,
Mayavaram	மாயவரம்	11	06	,,	79	44	,,
Mauritius	மொருசீஷ்	20	09	,,	57	25	,,
Meerut	மீரத்து	29	00	,,	77	44	,,
Mercara	மற்காரா	12	25	,,	75	46	,,
Midnapore	மிட்னபூர்	22	24	,,	87	20	,,
Moulmein	மௌல்மீன்	16	31	,,	90	39	,,
Multan	மூல்டான்	30	11	,,	71	32	,,
Murshidabad	மூர்ஷிடாபாத்	24	09	,,	85	14	,,
Mysore	மைசூர்	12	17	,,	76	43	,,
Nagarcoil	நாகர்கோவில்	08	02	,,	77	39	,,
Nagpur	நாகப்பூர்	21	08	,,	76	08	,,

இடங்களின் பெயர்கள்.	Names of Places.	அக்ஷாம்சம். Latitude.			ரேகாம்சம். Longitude.		
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Nandyal	நந்தியால்	15	29	N. உ.	78	34	E. கி.
Narayanganj	நாராயணன்காஞ்ஜ்	23	38	,,	90	33	,,
Nasik	நாசிக்	20	03	,,	74	00	,,
Negapatam	நாகப்பட்டணம்	10	47	,,	79	54	,,
Nellore	நெல்லூர்	14	26	,,	80	00	,,
Nizamabad (Indore)	நைஜாமாபாட் (இந்தூர்)	18	41	,,	78	08	,,
Nowgong	நௌகாங்கு	25	02	,,	79	31	,,
Nuwara Eliya	நுவராயா இலியா	06	51	,,	80	41	,,
Ootocamund	உதகமண்டலம்	11	23	,,	76	45	,,
Oudh	அயோத்தி	27	01	,,	81	31	,,
Palamcottah	பாளையங்கோட்டை	08	42	,,	77	44	,,
Palghat	பாலக்காடு	10	48	,,	76	38	,,
Pamban	பாம்பன்	09	16	,,	79	14	,,
Patiala	பாட்டியாலா	30	19	,,	76	24	,,
Patna	பாடலிபுரம்	25	31	,,	85	15	,,
Patur	பாத்தூர்	20	43	,,	83	10	,,
Penang	பினாங்கு	05	17	,,	100	03	,,
Peshawar	பெஷாவர்	34	01	,,	71	38	,,
Poona	பூனை	18	32	,,	73	56	,,
Porbandar	போர்பந்தர்	21	44	,,	69	33	,,
Port Blair	போர்ட்டு பிளேர்	11	42	,,	92	46	,,
Port Victoria (Seychelles)	போர்ட்டு விக்டோரியா	04	20	,,	55	44	,,
Prome	ப்ரோம்	18	42	,,	95	14	,,
Pudukkotai	புதுக்கோட்டை	10	22	,,	78	51	,,
Pulicat	பழவேற்காடு	13	29	,,	80	22	,,
Puri	பூரி	19	49	,,	85	53	,,
Purnea	பூர்னியா	25	47	,,	87	32	,,
Quetta	குயட்டா	30	11	,,	67	01	,,
Raichur	ரெய்ச்சூர்	16	11	,,	77	24	,,
Rajpur	ராஜ்பூர்	21	14	,,	81	42	,,
Rajkot	ராஜ்கோட்	22	17	,,	70	57	,,
Rajahmundry	ராயமபேந்திரம்	17	01	,,	81	47	,,
Rajapalayam	இராஜபாளையம்	09	30	,,	77	32	,,
Ranchi	ரஞ்சி	23	22	,,	85	22	,,

இடங்களின் பெயர்கள்.	Names of Places.	அகூசாம்சம். Latitude.			ரேகாம்சம். Longitude.		
		°	′		°	′	
Rameswaram	ராமேஸ்வரம்	09	14	N. உ.	79	21	E. கி.
Ramnad	ராமநாதபுரம்	09	18	,,	78	55	,,
Rangoon	ரங்கோன்	16	48	,,	96	12	,,
Ratnagiri	ரத்னகிரி	17	07	,,	73	18	,,
Rawalpindi	ராவல்பிண்டி	33	38	,,	73	05	,,
Sabarmati	சபர்மதி	24	01	,,	73	01	,,
Salem	சேலம்	11	40	,,	78	11	,,
Salsette	சால்செட்டி	19	04	,,	70	54	,,
Sambalpur	சாம்பல்பூர்	21	27	,,	84	00	,,
Sandur	சண்டூர்	15	02	,,	76	33	,,
Satara	சட்டாரா	17	34	,,	74	01	,,
Secunderabad	சகிண்டராபாத்	17	22	,,	78	33	,,
Sholapur	சோளாப்பூர்	17	41	,,	75	58	,,
Simla	சிம்லா	31	05	,,	77	12	,,
Singapore	சிங்கப்பூர்	01	21	,,	103	55	,,
Sirajganj	சிராஜிகெஞ்சி	24	26	,,	89	48	,,
Sivasamudram	சிவசமுத்திரம்	12	14	,,	77	14	,,
Srinagar	ஸ்ரீநகர்	34	05	,,	74	52	,,
Srirangam	ஸ்ரீரங்கம்	10	48	,,	78	41	,,
Srirangapatam	ஸ்ரீரங்கப்பட்டணம்	12	24	,,	76	45	,,
Surat	சூரத்	21	11	,,	72	53	,,
Srivilliputtur	ஸ்ரீவில்லிபுத்தூர்	09	30	,,	77	36	,,
Table Island	டேபில் ஐலாண்டு	14	02	,,	93	19	,,
Tanjore	தஞ்சாவூர்	10	44	,,	79	06	,,
Tehran	தெயிரன்	35	42	,,	51	24	,,
Tellicherry	தலைச்சேரி	11	42	,,	75	34	,,
Tinnevelly	திருநெல்வேலி	08	45	,,	77	45	,,
Tiruchendur	திருச்செந்தூர்	08	30	,,	78	06	,,
Tirukkoilur	திருக்கோயிலூர்	11	50	,,	79	20	,,
Tiruvadi	திருவையார்	11	45	,,	79	40	,,
Tiruvarur	திருவாரூர்	10	49	,,	79	45	,,
Trichinopoly	திருச்சிறுப்பள்ளி	10	51	,,	78	47	,,
Trichur	திருச்சூர்	10	31	,,	76	14	,,
Trincomalee	திருக்கோணமலை	08	3	,,	81	07	,,
Trivandrum	திருவனந்தபுரம்	08	28	,,	77	00	,,
Tuticorin	தூத்துக்குடி	08	48	,,	78	08	,,

இடங்களின் பெயர்கள்.	Names of Places.	அக்ஷாம்சம். Latitude.			ரேகாம்சம். Longitude.		
		°	′		°	′	
Udaipur	உதைப்பூர்	24	36	N. உ.	73	44	E. கி.
Udipi	உடுப்பி	13	09	,,	74	41	,,
Ujjain	உஜ்ஜீனிமாகாளிப் பட்டணம்	23	09	,,	75	51	,,
Vellore	வேலூர்	12	56	,,	79	09	,,
Victoria Point	விக்டோரியாபா யிண்ட்	10	01	,,	98	34	,,
Vijayanagar	விஜயநகர்	15	07	,,	76	26	,,
Vijianagram	விஜயநகரம்	18	12	,,	83	24	,,
Vizagapatam	விசாகபட்டணம்	17	41	,,	83	18	,,
Waltair (Vizagapatam)	வால்டேர்	17	45	,,	83	22	,,
Yerkkaud	ஏற்காடு	11	45	,,	78	15	,,
Zanzibar	ஜான்சிபார்	06	09	,,	39	10	,,

APPENDIX No. I—அநுபந்தம் கெ. 1

Time Differences between Greenwich Mean Time and the Mean Time or Standard Time of some important places :—

மீன் டயர், ஸ்டாண்டர்டு டயம் வித்தியாசங்கள்.

Places. இடங்கள்	Nature of Time Difference டயம் வித்தியாச விபரம்	Hrs–ms–sds மணி–நிமி–செ
Madras சென்னை மாகாணம்	Mean Time Difference மீன் டயம் வித்தியாசம்	= — 5–20–59·13
Bombay Presidency பம்பாய் மாகாணம்	do. மேற்படி	= — 4–51–15·6
Calcutta Bengal Province கல்கத்தா (பங்காளம்) மாகாணம்	do. மேற்படி	= — 5–53–20·3
Burma பர்மா	do. மேற்படி	= — 6–24–47
Mauritius மொரிஷ்ஷ்	do. மேற்படி	= — 3–50–12·6

Places இடங்கள்	Nature of Time Difference டயம் வித்தியாச விபரம்	Hrs–ms–sds மணி–நிமி–செ
Singapore Straits Settlements சிங்கப்பூர் ஸ்டெயிட் செட்டில் மெண்டு	Mean Time Difference மீன் டயம் வித்தியாசம்	= — 6–55–17·4
India (except Calcutta) இந்தியா (கல்கத்தா தவிற)	Standard Time Difference ஸ்டாண்டர்டு டயம் வித்தியாசம்	= — 5–30–00·00
Ceylon சிலோன்	do. மேற்படி.	= — 5–30–00·00
Laccadive Islands லக்கூத் தீவுகள்	do. மேற்படி	= — 5–30 00·00
Burma பர்மா	do. மேற்படி	= — 6–30–00·00
Straits Settlements ஸ்டெயிட் செட்டில் மெண்டு	do. மேற்படி	= — 7–00–00
,, ,,	do. மேற்படி	= — 7 20–00
Federated Malay States பெடரேடடு மலையா ஸ்டேட்ஸ்	do. மேற்படி	= — 7–00–00
Union of South Africa யூனியன் ஆப் தென் ஆபிரிகா	do. மேற்படி	= — 2–00–00
Mauritius மொருஷீஸ்	do. மேற்படி	= — 4–00–00

N.B.—Minus sign prefixed to the Time Differences shows that the Greenwich Mean Time is less than the times of the places by the quantities shown against them.

ருவுத் குறி என்பது கிரீன்விச்சு மீன் டயம் என்பது அந்தந்த இடங்களின் டயத்தைவிடக் குறைந்தது என்று காட்டும்.

Ayanamsa on the 1st of Chitra (*i.e.* on the 13th or 14th April.)
சித்திரை மீ 1ஆ அயன ஸ்புடம் அல்ல து அயனம்சம்

English year இங்கி லீஷ் வருஷம்	Ayanamsa Longitude அயன ஸ்புடம் பாகை—கலை	English year இங்கி லீஷ் வருஷம்	Ayanamsa Longitude அயன ஸ்புடம் பாகை—கலை	English year இங்கி லீஷ் வருஷம்	Ayanamsa Longitude அயன ஸ்புடம் பாகை—கலை
1840	21—29	1872	21—56	1904	22—23
1841	21—30	1873	21—57	1905	22—24
1842	21—31	1874	21—58	1906	22—25
1843	21—32	1875	21—59	1907	22—26
1844	21—33	1876	22— 0	1908	22—26
1845	21—34	1877	22— 0	1909	22—27
1846	21—35	1878	22— 1	1910	22—28
1847	21—35	1879	22— 2	1911	22—29
1848	21—36	1880	22— 3	1912	22—30
1849	21—37	1881	22— 4	1913	22—31
1850	21—38	1882	22— 5	1914	22—31
1851	21—39	1883	22— 6	1915	22—32
1852	21—40	1884	22— 6	1916	22—33
1853	21—40	1885	22— 7	1917	22—34
1854	21—41	1886	22— 8	1918	22—35
1855	21—42	1887	22— 9	1919	22—36
1856	21—43	1888	22—10	1920	22—37
1857	21—44	1889	22—11	1921	22—37
1858	21—45	1890	22—11	1922	22—38
1859	21—45	1891	22—12	1923	22—39
1860	21—46	1892	22—13	1924	22—40
1861	21—47	1893	22—14	1925	22—41
1862	21—48	1894	22—15	1926	22—42
1863	21—49	1895	22—16	1927	22—42
1864	21—50	1896	22—16	1928	22—43
1865	21—50	1897	22—17	1929	22—44
1866	21—51	1898	22—18	1930	22—45
1867	21—52	1899	22—19	1931	22—46
1868	21—53	1900	22—20	1932	22—47
1869	21—54	1901	22—21	1933	22—47
1870	21—55	1902	22—21	1934	22—48
1871	21—55	1903	22—22	1935	22—49

Ayanamsa on the 1st of Chitra (*i.e.* the 13th or 14th April)

சித்திரை மீ 1உ அயன ஸ்புடம் அல்லது அயனாம்சம் —தொடர்ச்சி

English years இங்கி லீஷ் வருஷம்	Ayanamsa Longitude அயன ஸ்புடம் பாகை—கலை	English years இங்கி லீஷ் வருஷம்	Ayanamsa Longitude அயன ஸ்புடம் பாகை—கலை	English years இங்கி லீஷ் வருஷம்	Ayanamsa Longitude அயன ஸ்புடம் பாகை—கலை
1936	22—50	1958	23—08	1980	23—27
1937	22—51	1959	23—09	1981	23—28
1938	22—52	1960	23—10	1982	23—28
1939	22—53	1961	23—11	1983	23—29
1940	22—53	1962	23—12	1984	23—30
1941	22—54	1963	23—13	1985	23—31
1942	22—55	1964	23—13	1986	23—32
1943	22—56	1965	23—14	1987	23—33
1944	22—57	1966	23—15	1988	23—33
1945	22—57	1967	23—16	1989	23—34
1946	22—58	1968	23—17	1990	23—35
1947	22—59	1969	23—18	1991	23—36
1948	23—00	1970	23—18	1992	23—37
1949	23—01	1971	23—19	1993	23—38
1950	23—02	1972	23—20	1994	23—39
1951	23—02	1973	23—21	2995	23—39
1952	23—03	1974	23—22	1996	23—40
1953	23—04	1975	23—23	1997	23—41
1954	23—05	1976	23—23	1998	23—42
1955	23—06	1977	23—24	1999	23—43
1956	23—07	1978	23—25	2000	23—44
1957	23—08	1979	23—26		

C. G. Rajan's Astrological Books, etc.

(1) RAJA JOTHIDA GANITHAM:—(IN English) is a book of Planetary tables for 6300 years *i.e.* from 3200 B.C. to 3100 A.D. It is based on up to date American and European astronomy. It enables the quick calculation of the Geocentric Longitudes and Latitudes of all the nine Indian planets correct to the nearest minute of arc at any moment between 3200 B.C. and 3100 A.D. This book deals with the following points *viz* (1) Siderial time, with 8 tables to calculate Siderial time for any moment between 1800 A.D. and 3100 A.D. (2) Eclipses with rules for the calculation of eclipses according to the Saros of the Chaldeans (3) conversion of Celestial longitude and latitude into Right Ascension and declination and vice versa, (4) Several kinds of time in use, (5) Rising and setting of the Heavenly bodies (6) Rising and Setting of the Sun (7) Standard times of Sunrise and Sunset (8) The Rising and setting of the Moon. Mars, Mercury, Jupiter, Venus, and Saturn (9) Rising and setting of Zodiacal *Signs (10) Calculation of the Lagna and Bhavachakra (11)* Calculation of Cusps of houses practically (12) Ayanamsa and conversion of Sayana longitude into Hindu Spherical Coordinates (14) Tables of conversion of Tropical longitude into Tropico-Polar longitude (15) Tables of Hindu latitude (16) Tables of Hindu Kranti (17) Tables of European declination (18) Equation of time. 510 pages, royal size, Calico cloth bound. Price Rs. 5–0–0 Net, (postage extra). In Tamil also Pages 564 Rs. 5–0–0.

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with reference to an illustrative horoscope. The 3rd edition contains the newly added matter about the moments of Graha Uva, Uvantham, Vakra Arambam, Vakra Nivarthi and the longitudes of the planets at these moments for the years from 1891 to 1941 A.D. to enable the calculation of Chesthta Bhala of planets—This book will serve also as a commentary to Sripathi's Jathaka Karma Paddhadhi and Varahamihira's Brihat Jataka. This is approved by the Madras Text Book Committee for library use. Demi, Octavo. Pages 346. Price Rs. 2-8-0

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for 12 lagnas extracted from Nadi Granthas such as Sukra Nadi, Kerala Nadi, Dhruva Nadi, Satya Samhita. Bhrighu Samhita, Sarvasangraha Nadi, and Yoga Nadi. These dogmas or rules are those given by such eminent classical astrologers as Vriddha Vasisthar, Parasar, Narathar, Kasipar, Jaimuni, Gargar, Bhrighu, Satyachari, Manu Vishnu, Eswarar, Yavanar, Mayan etc. These dogmas give many details about all the life events of the native of the horoscope, his father, his mother, his brothers and sisters, his father's brothers and sisters, his maternal uncle, his step-mother, his step-brothers and step-sisters, his wife's father etc.— It makes also far reaching predictions which cannot be made ordinarily even by astrologers who are considered to be much above the average astrologer. These dogmas predict events with reference to lagna rasi, position of planets, planetary aspects and mutual aspects and inter-actions among planets taking into account for an event several planets and factors at a time such as Bhava Karaka points, Graha Karaka points and positional strengths such as Ocha, Neecha, Swakshetra, Satru, Rasi position and also, Kendra, Thirikona etc. positions. Thus these dogmas save the astrologer from the great trouble of (1) intelligently putting together the numerous factors that have to be taken into account, considered well and weighed in the mental balance with reference to their *pros* & *cons* for a point in life and (2) of thus finding the sum total or resultant planetary force causing a native's event in life. This book will be of very great help to an astrologer if the planetary Yogas in the horoscope under his scrutiny or examination agree with, or even approximate, the dogmas or planetary yogas set forth in it and he will be able to construct the whole, or a portion of the life history of the native of the horoscope according to the number of yogas found in it as applicable to the horoscope under scrutiny. Price Rs. 3–4–0.

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